00656H-00_Cover.qxd 7/15/04 11:35 AM Page 1

– AFTER SALES SERVICE

– Do not hesitate to contact your retailer or service agent if a change in the performance of your product indicates that a faulty condition may be present.

SAMSUNG ELECTRONICS

BN68-00656H-00

SAMSUNG

LCD TV

LS26A33W

Owner's Instructions

Before operating the unit,
please read this manual thoroughly,
and retain it for future reference.

ON-SCREEN MENUS
PC DISPLAY
PICTURE IN PICTURE (PIP)
TELETEXT

This device is a class B digital apparatus.

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ON-SCREEN MENUS
PC DISPLAY
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TELETEXT

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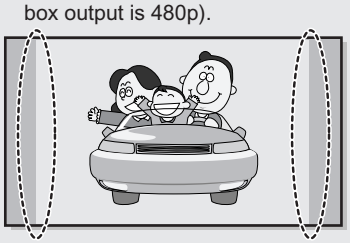
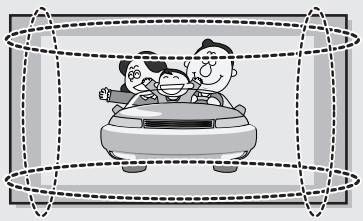
Precautions When Using the Still Image

The still image may cause permanent damage to the TV screen.

• Digital Ready TV: When you select the regular screen (4:3) mode to watch an SD-grade digital broadcast (and the set-top box output is 480p).



• Digital Ready TV: When you select the wide screen (16:9) mode to watch an SD-grade digital broadcast (and the set-top box output is 1080i).

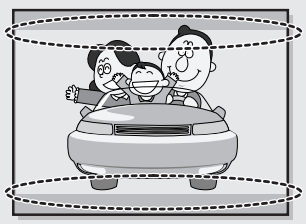


Although digital broadcasting must be in the wide screen (16:9) HD format, broadcasters sometimes show programs made originally in the regular screen format (4:3) by converting the signals into digital form, in which case the left and right side edges of the screen are cropped.

Note : If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amounts of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience the same problem with products by other manufacturers.

• Digital Ready TV: When the TV receives HD-grade signals (and the set-top box output is 1080i).

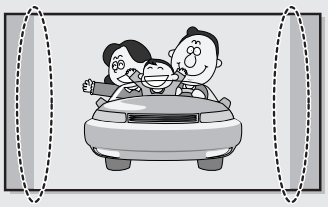


When you watch a digital HD-grade broadcast on a regular (4:3) TV with the screen size "16:9" or "Panorama" selected, you will be able to watch the program but the top and bottom edges of the screen will be cropped.

Note : If the borders at the top, bottom and the center of the screen remain fixed for an extended period of time, the amounts of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience the same problem with products by other manufacturers.

- Integrated Digital TV (Wide-screen): When the TV receives SD-grade (regular) broadcasting signals (receives 480p regular signals).
- Digital Ready TV (wide-screen): digital TV: When the TV receives SD-grade (regular) broadcasting signals (with a set-top box).
- When you watch an analogue (regular) broadcast on a wide-screen TV (with the 4:3 screen mode selected).

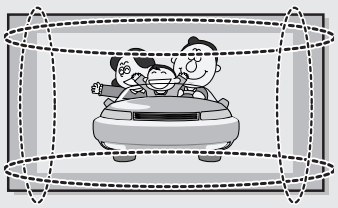


Although digital broadcasting must be in the wide screen (16:9) HD format, broadcasters sometimes show programs made originally in the regular screen format (4:3) by converting the signals into digital form, in which case the left and right side edges of the screen are cropped.

Note : If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amounts of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience the same problem with products by other manufacturers.

- When you watch a DVD, CD or a video in wide screen (21:9) format on a wide-screen (16:9) TV.
- When you connect a computer or a game console to the TV and select the 4:3 screen mode.



If you connect a DVD player, computer or a game console to the wide-screen TV and watch a movie or play a game in regular (4:3) or wide (21:9) screen mode, the left and right side edges, or the top and bottom edges of the screen will be cropped.

Note : If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amounts of light transmission will also remain varied and as a result the borders may leave traces.

Do not leave the screen in pause mode for extended periods of time as you may experience the same problem with products by other manufacturers.

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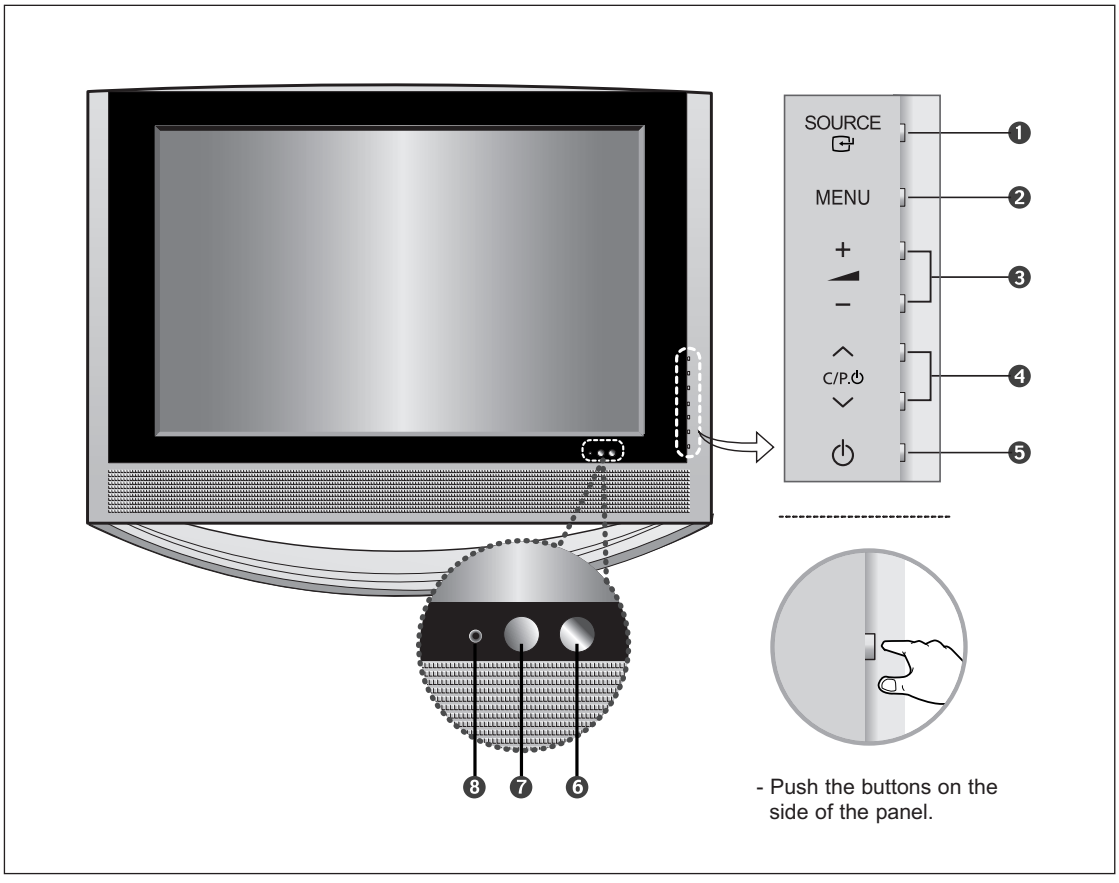
Symbols

Press **Important** **Note**

Viewing the Control Panel



❶ SOURCE

Displays a menu of all of the available input sources (TV, AV, S-Video, Component 1, Componenet 2, DVI, PC).

►You can also use the SOURCE button on the TV's control panel to make selection.

❷ MENU

Press to see an on-screen menu of your TV's features.

❸ – +

Press to decrease or increase the volume. Also used to select items on the on-screen menu.

❹ C/P.

Press to change channels.
Also press to highlight various items on the on-screen menu.
(Without the Remote Control, You can turn on TV by using the Channel buttons.)

❺ (Power)

Press to turn the TV on and off.

❻ Light Detecting Sensor

Adjusts brightness of screen automatically by detecting brightness of surrounding environment. This sensor works when Brightness Sensor is on.

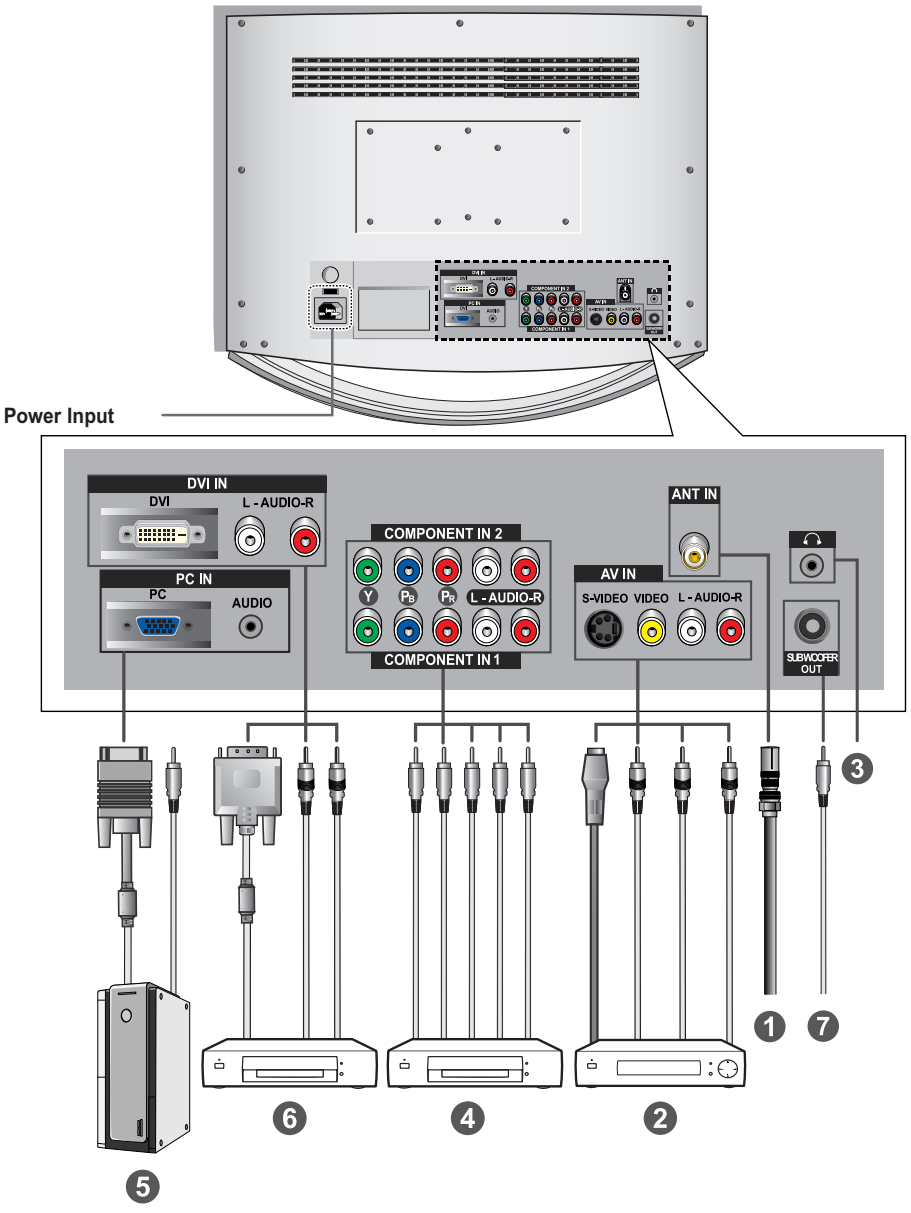
❼ Remote Control Sensor

Aims the remote control towards this spot on the TV.

❽ Power Indicator

Lights up when you turn the power off.
When you turn the power off after selecting On/Off Timer, green light will appear.

Viewing the Connection Panel



☛ Whenever you connect an audio or video system to your set, ensure that <u>all</u> elements are switched <u>off</u>.

❶ *Connecting an Aerial or Cable Television Network*

To view television channels correctly, a signal must be received by the set from one of the following sources:

- An outdoor aerial
- A cable television network
- A satellite network

Viewing the Connection Panel

❷ *Connecting External A/V Devices*

- Connect RCA or S-VIDEO cable to an appropriate external A/V device such as VCR, DVD or Camcorder.
- Connect RCA audio cables to **"L - AUDIO - R"** on the rear of your set and the other ends to corresponding audio out connectors on the A/V device.
- Headphone may be connected to the headphone output (❸) on the rear of your set. While the headphone is connected, the sound from the built-in speakers will be disabled.

❹ *Connecting Component Devices (DTV/DVD)*

- Connect component video cables to component connector **("Y","PB","PR")** on the rear of your set and the other ends to corresponding component video out connectors on the DTV or DVD.
- If you wish to connect both the Set-Top Box and DTV (or DVD), you should connect the Set-Top Box to the DTV (or DVD) and connect the DTV (or DVD) to component connector **("Y","PB","PR")** on your set.
- The Y, PB and PR connectors on your component devices (DTV or DVD) are sometimes labeled Y, B-Y and R-Y or Y, Cb and Cr.
- Connect RCA audio cables to **"L - AUDIO - R"** on the rear of your set and the other ends to corresponding audio out connectors on the DTV or DVD.

Source	Video	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Resolution (Lines)
Source	PAL	15.625	50	575
	SECAM	15.625	50	575
	NTSC4.43	15.734	60	483
	NTSC3.58	15.734	60	483
Component1/2	480/60i	15.734	60	483
	480/60p	31.469	60	483
	576/50i	15.625	50	576
	576/50p	31.250	50	576
	720/60p	45.000	60	720
	1080/50i	28.125	50	1080
	1080/60i	33.750	60	1080

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Viewing the Connection Panel

❺ *Connecting Computer*

- Connect the D-Sub cable to "**PC (PC IN)**" on the rear of your set.
- Connect the stereo audio cable to "**AUDIO (PC IN)**" on the rear of your set and the other end to "Audio Out" of the sound card on your computer.

❻ *Connecting DVI*

- Connect the **DVI** connector to the **DVD** connector.
- Connect the stereo audio cable to **"L - AUDIO - R"** on the rear of your set and the other end to "Audio Out" of the sound card on your DVD.
- DVI does not support PC function.

❼ *Connecting Sub Woofer*

Viewing the Remote Control (All Functions Except Teletext)

Television On/Off (Refer to page 11)

Automatic power-off (Refer to page 39)

Selects a target device to be controlled by the samsung remote control (TV, STB, VCR, CABLE, DVD) (Refer to page 60~63)

Numeric buttons for direct channel access

One/Two-digit channel selection

Previous channel

-Next channel
-Previous channel
(Refer to page 11)

Volume up or down (Refer to page 32)

Temporary sound switch-off (Refer to page 33)

Available source selection (Refer to page 44)

Selects to the TV mode directly

Use to see information on the current broadcast. (Refer to page 38)

Menu display and change confirmation (Refer to page 12)

Exit the OSD

Control the cursor in the menu (Refer to page 12)

Sound effect selection (Refer to page 34)

SRS WOW selection (Refer to page 35)

DUAL I-II button (Refer to page 33)

Picture effect selection (Refer to page 22)

Selects to the PC mode directly (Refer to page 46)

STILL : Picture freeze (Refer to page 26)

PIP FUNCTIONS; (Refer to page 30~31)

PIP	: Picture-In-Picture On/ Off
POSITION	: PIP position selection
SIZE	: PIP size selection
SWAP	: Interchange the main and sub picture

Picture size selection (Refer to page 25)

Press to improve the digital video quality. (Refer to page 26)

VCR/DVD FUNCTIONS

◀◀ : Rewind
■: Stop
▶II : Play/Pause
▶▶ : Fast/Forward

RESET:
When your remote does not work, change the batteries and press the "RESET" button for 2-3 seconds before use.

Set (Refer to page 60~62)

➢ The performance of the remote control may be affected by bright light.

Viewing the Remote Control (Teletext Functions)

Teletext display/mix both teletext information and the normal broadcast

Teletext sub page

P ∧ : Teletext next page
P ∨ : Teletext previous page

Teletext mode selection (LIST/FLOF)

Exit from the teletext display

Teletext reveal

Teletext index

Teletext cancel

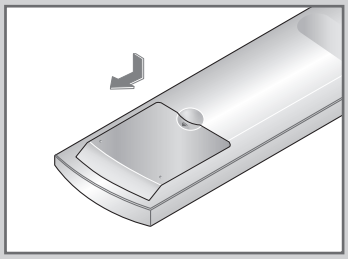
Teletext size selection

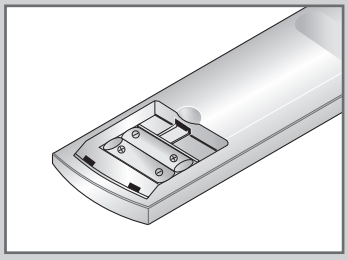
Teletext hold

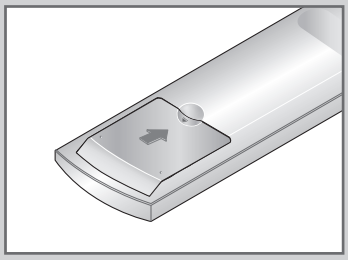
Teletext store

Teletext Function : Refer to page 50-52 for details

Installing Batteries in the Remote Control







1 Slide the cover out completely.

2 Install two AAA size batteries.

➢ Make sure to match the "+" and "–" ends of the batteries with the diagram inside the compartment.

3 Replace the cover.

➢ Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time. The remote control can be used up to about 23 feet from the TV. (Assuming typical TV usage, the batteries last for about one year.)

➢ **If remote control doesn't work**

Check the following:

1. Is the TV power on?
2. Are the plus and minus ends of the batteries reversed?
3. Are the batteries drained?
4. Is there a power outage, or is the power cord unplugged?
5. Is there a special fluorescent light or a neon sign nearby?

Switching On and Off

The mains lead is attached to the rear of your set.

1 Plug the mains lead into an appropriate socket.

Result: The main voltage is indicated on the rear of your set and the frequency is 50 or 60Hz.

2 Press the **POWER** (⏻) button on the right-side of your set.

Result: The standby indicator lights up on the front panel.

3 Press the numeric button (0~9) or channel up/down (∧/∨) button on the remote control or ∧ **C/P.** ⏻ ∨ button on the right-side of your set.

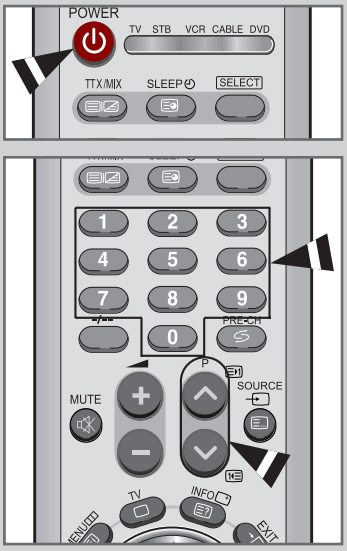
Result: The programme that you were watching last is reselected automatically.

➢ When you switch the set on for the very first time, you will be asked to choose language in which the menus are to be displayed (see page 14).

4 To switch your set off, press the **POWER** (⏻) button again.

Placing Your Television in Standby Mode

Your set can be placed in standby mode in order to reduce the power consumption. The standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).



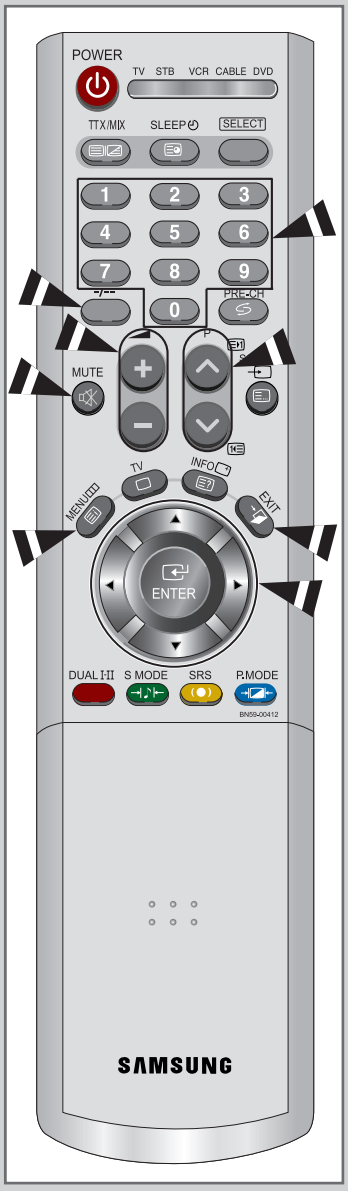
1 Press the **POWER** (⏻) button on the remote control.

Result: The screen is turned off and a red standby indicator appears on the front of your set.

2 To switch your set back on, simply press the **POWER** (⏻), numeric buttons (**0~9**) or channel up/down (∧/∨) button again.

➢ Do not leave your set in standby mode for long periods of time (when you are away on holiday, for example).
It is best to unplug the set from the mains and aerial.

Becoming Familiar with the Remote Control



The remote control is used mainly to:

- **Change channels and adjust the volume.**
- **Set up your set using the on-screen menu system.**

The following table presents the most frequently used buttons and their functions.

Button	Viewing Function	Menu Function
∧	Used to display the next stored channel.	-
∨	Used to display the previous stored channel.	-
0 to 9	Used to display the corresponding channels. ➢ For double digit channels, the second digit must be pushed immediately after the first. Failure to do this will result in a single digit channel being displayed.	
-/--	Used to select a channel numbered ten or over. Press this button, and enter the two digit channel number.	
+	Used to increase the volume.	-
–	Used to decrease the volume.	-
MUTE	Used to switch the sound off temporarily. ➢ To turn the sound back on, press this button again, or press the - + button.	
MENU	Used to display the on-screen menu system.	Used to return to the previous menu or normal viewing.
EXIT	Used to exit the on-screen menu system.	
	▲▼ Used to move among the menu items. ► Used to select a menu item or increase the value of the selected item. ◄ Used to return to the previous menu item or decrease the value of the selected item.	
ENTER	-	Used to confirm your choice.

Plug and Play

When the set is initially powered ON, several basic customer settings proceed automatically and subsequently.
The following settings are available.

1 If the set is in standby mode, press the **POWER** (⏻) button on the remote control.

Result: The message **Plug & Play** is displayed. It appears for a little while, and then the **Language** menu is automatically displayed.

2 Select the appropriate **Language** by pressing the ▲ or ▼ button.

➢ The available languages are listed.
You can choose one of 2 languages.

3 Press the **ENTER**↵ button to confirm your choice.

Result: The message **Check antenna input.** is displayed with the **OK** selected.

4 Press the **ENTER**↵ button.

Result: The following Areas are available:
Asia/W.Europe - CIS/E.Europe - China - HongKong/UK - Australia - NZL/Indonesia - South Africa - America

5 Select your **Area** by pressing the ▲ or ▼ button.
Press the **ENTER**↵ button.

Result: The **Auto Store** menu is displayed with the **Start** selected.

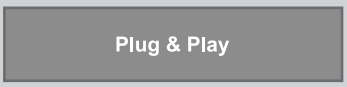
6 Press the **ENTER**↵ button.

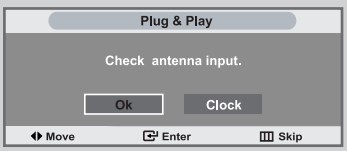
Result: The channel search will start and end automatically.

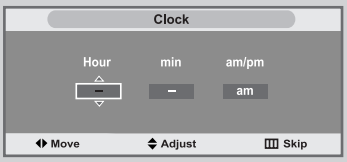
7 Select the **Hour, min** or **am/pm** by pressing the ◄ or ► button.
Set the **Hour, min** or **am/pm** by pressing the ▲ or ▼ button.
(Refer to "**Setting and Displaying the Current Time**" on page 38)

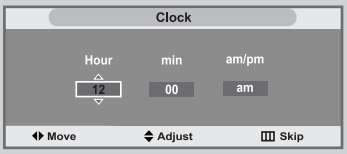
8 Press the **MENU** ▥ button to confirm your setting.

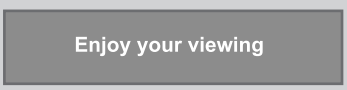
Result: The message **Enjoy your viewing** is displayed, and then the channel which has been stored will be activated.



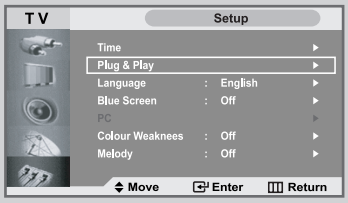








Plug and Play



Plug & Play

If you want to reset this feature...

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.
Press the **ENTER** button.

Result: The options available in the **Setup** group are displayed.

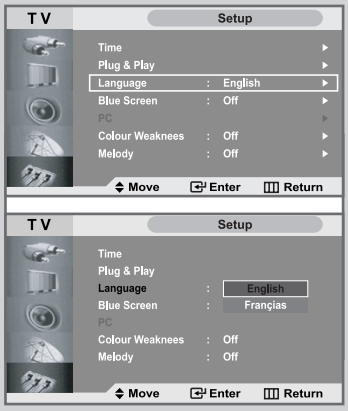
3 Press the ▲ or ▼ button to select **Plug & Play**.

4 Press the **ENTER** button.

Result: The message **Plug & Play** is displayed.

5 For further details on how to set, refer to the previous page.

Choosing Your Language



When you start using your set for the first time, you must select the language which will be used for displaying menus and indications.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

3 Press the **ENTER** button.

4 Press the ▲ or ▼ button to select **Language**.
Press the **ENTER** button.

Result: The available languages are listed.

5 Select a particular language by pressing the ▲ or ▼ button repeatedly.
Press the **ENTER** button.

➢ You can choose one of 2 languages.

6 When you are satisfied with your choice, press the **EXIT** button to return to normal viewing.

Storing Channels Automatically

You can scan for the frequency ranges available to you (and availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However, you can sort numbers manually and clear any channels you do not wish to watch.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** button.

Result: The **Area** is selected.

4 Press the **ENTER** button again. Select your **Area** by pressing the ▲ or ▼ button repeatedly.

Result: The following countries are available:
Asia/W.Europe - CIS/E.Europe - China - HongKong/UK - Australia - NZL/Indonesia - South Africa - America

5 Press the **ENTER** button.

6 Press the ▲ or ▼ button to select **Auto Store**.
Press the **ENTER** button.

Result: The **Start** is selected.

7 Press the **ENTER** button to search the channels.
The sub menu is changed from **Start** to **Stop** with channel search started.

Result: The search will end automatically. Channels are sorted and stored in an order which reflects their position in the frequency range (with lowest first and highest last). The programme originally selected is then displayed.

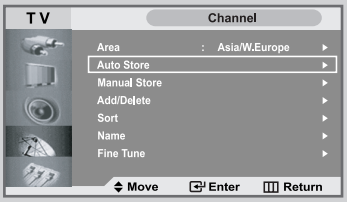
➢ To return to the previous menu, press the ◄ or ► button to select **Return** and then press the **ENTER** button.

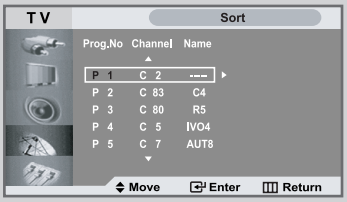
➢ To stop the search before it has finished, press the **ENTER** button with **Stop** selected.

8 After **Auto Store** proceeds, **Sort** menu appears automatically.

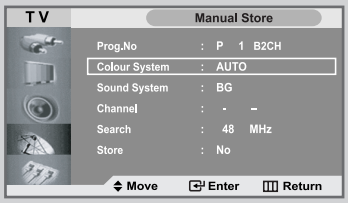
➢ Sort them in the order required (refer to page 19)

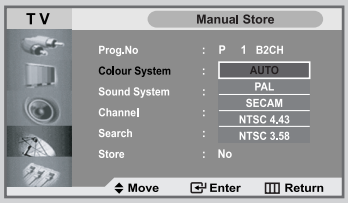
9 When the channels have been stored, you can:
- ◆ Assign names to the stored channels (refer to page 20)
- ◆ Add or delete the channels (refer to page 18)
- ◆ Fine tune channel reception if necessary (refer to page 21)

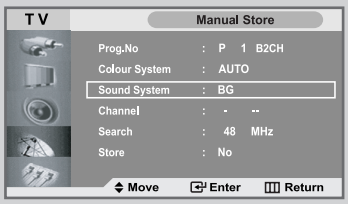


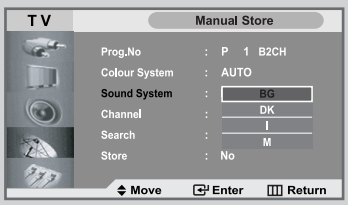


Storing Channels Manually









You can store up to 100 channels, including those received via cable networks. When storing channels manually, you can choose:

- ***Whether or not to store each of the channels found.***
- ***The programme number of each stored channel which you wish to identify.***

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** button.

4 Press the ▲ or ▼ button to select **Manual Store**.
Press the **ENTER** button.

Result: The options available in the **Manual Store** menu are displayed with **Prog.No** selected.

5 Press the **ENTER** button again.
To assign a programme number to a channel, find the correct number by pressing the ▲ or ▼ button and then press the **ENTER** button.

➢ You can also set programme number by pressing number buttons on the remote control.

6 Press the ▲ or ▼ button to select **Colour System** and then press the **ENTER** button.
Select the **Colour System** required by pressing the ▲ or ▼ button repeatedly and then press the **ENTER** button.

Result: The colour standards are displayed in the following order: **AUTO - PAL - SECAM - NTSC 4.43 - NTSC 3.58**

7 Press the ▲ or ▼ button to select **Sound System** and then press the **ENTER** button.
Select the sound standard required by pressing the ▲ or ▼ button repeatedly and then press the **ENTER** button.

Result: The sound standards are displayed in the following order: **BG - DK - I - M**

8 For all the channels to move to the required channel numbers, repeat steps **5** to **7** after selecting **Prog.No** by pressing ▲ or ▼ button.

Storing Channels Manually

9 If you know the number of the channel to be stored....

- ◆ Press the ▲ or ▼ button to select **Channel** and then press the **ENTER** ↵ button.
- ◆ Select **C** (Air channel) or **S** (Cable channel) by pressing the ▲ or ▼ button.
- ◆ Press the ► button to select **Channel**.
- ◆ Select the required number by pressing the ▲ or ▼ button and then press the **ENTER** ↵ button.

➢ If there is abnormal sound or no sound, re-select the sound system required.

➢ You can also set **Channel** by pressing number buttons on the remote control.

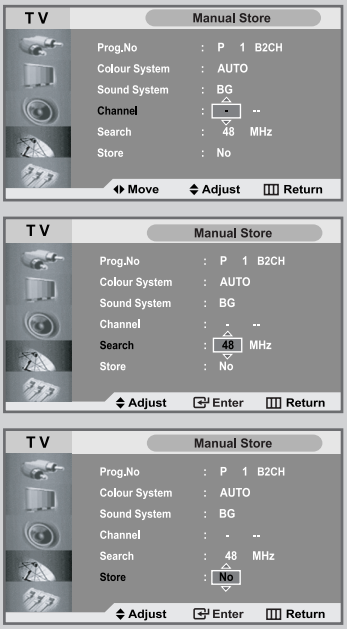
10 If you do not know the channel numbers, press the ▲ or ▼ button to select **Search** and then press the **ENTER** ↵ button.
Search by pressing the ▲ or ▼ button and then press the **ENTER** ↵ button.

Result: The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.

11 Press the ▲ or ▼ button to select **Store** and then press the **ENTER** ↵ button.
Select **Yes** by pressing the ▲ or ▼ button and then press the **ENTER** ↵ button.

Result: The channel and associated programme number are stored.

12 Repeat steps **9** to**11** for each channel to be stored.



☛ ***Channel mode***

- ◆ **P** (Programme mode): When tuning is completed, the broadcasting stations in your area will have been assigned to position numbers from P00 to P99. You can select a channel by entering the position number in this mode.
- ◆ **C** (Real channel mode): You can select a channel by entering the assigned number to each broadcast station in this mode.
- ◆ **S** (Cable channel mode): You can select a channel by entering the assigned number to each cable channel in this mode.

Editing the Channels

You can exclude the channels you chose from the channels you scanned. When you scan through the stored channels, those you have chosen to skip are not displayed.

All channels that you do not specifically choose to skip are displayed during scanning.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.
Press the **ENTER** ↵ button.

Result: The options available in the **Channel** group are displayed.

3 Press the ▲ or ▼ button to select **Add/Delete**.
Press the **ENTER** ↵ button.

Result: The state of current channel is displayed.

4 Press the ∧/∨ button to select **Channel** that you wish to **Add** or **Delete**.

Result: If the channel that you wish to edit is not in memory, the **Add** is selected and displayed.
Otherwise, if the channel that you wish to edit is in memory, the **Delete** is selected and displayed.

5 Press the **ENTER** ↵ button to **Add** or **Delete** channel.

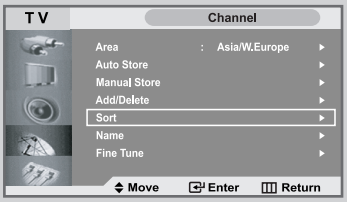
6 To return to the previous menu, select **Return** by pressing the ◄ or ► button and then press the **ENTER** ↵ button.

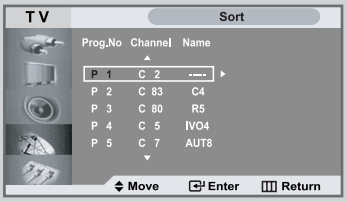
7 Repeat steps **4** to **5** for each channel to be added or deleted.

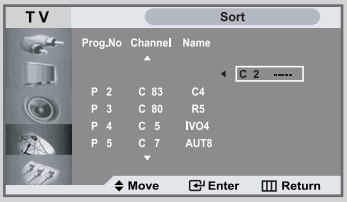
Sorting the Stored Channels

You can exchange the numbers of two channels, in order to:

- ***Modify the numeric order in which the channels have been automatically stored.***
- ***Give easily remembered numbers to the channels that you watch most often.***







1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.
Press the **ENTER** button.

Result: The options available in the **Channel** group are displayed.

3 Press the ▲ or ▼ button to select **Sort**.
Press the **ENTER** button.

Result: The **Prog.No, Channel** and **Name** are displayed.

4 Select the **Channel** number that you wish to change by pressing the ▲ or ▼ button repeatedly.
Press the **ENTER** button.

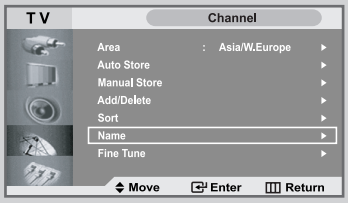
Result: The selected **Channel** number and **Name** is moved to right side.

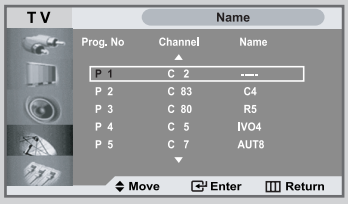
5 Press the ▲ or ▼ button to move to the position which you would like to change and then press the **ENTER** button.

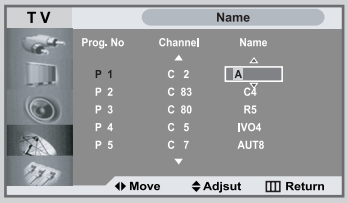
Result: The selected channel is exchanged with the one previously stored to the chosen number.

6 Repeat steps **4** to **5** for another channel to be sorted.

Assigning Channels Names







Channel names will be assigned automatically when channel information is broadcast.
These names can be changed, allowing you to assign new names.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.
Press the **ENTER** button.

Result: The options available in the **Channel** group are displayed.

3 Press the ▲ or ▼ button to select **Name**.
Press the **ENTER** button.

Result: The current **Prog.No, Channel** and **Name** are displayed.

4 If necessary, select the channel to be assigned to a new name by pressing the ▲ or ▼ button.
Press the **ENTER** button.

Result: The selection bar is displayed around the name box.

5

To...	Then...
Select a letter, number or symbol	Press the ▲ or ▼ button
Move on the next letter	Press the ► button
Move back the previous letter	Press the ◄ button
Confirm the name	Press the **ENTER** button

➢ The characters available are :
- ◆ Letters of the alphabet (A~Z).
- ◆ Numbers (0~9).
- ◆ Special characters (*, –, _, space).

6 Repeat steps **4** to **5** for each channel to be assigned to a new name.

7 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

Fine Tuning Channel Reception

If the reception is clear, you do not have to fine-tuning the channel, as this is done automatically during the search and store operation. If however, the signal is weak or distorted, you may have to fine-tuning the channel manually.

➢ Select the channel that you want to fine tune.

1 Press the **MENU** button.

Result: The main menu is displayed.

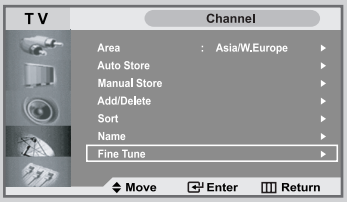
2 Press the ▲ or ▼ button to select **Channel**.
Press the **ENTER** button.

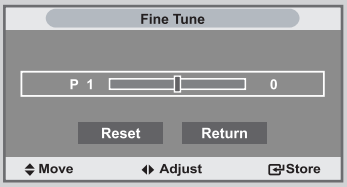
Result: The options available in the **Channel** group are displayed.

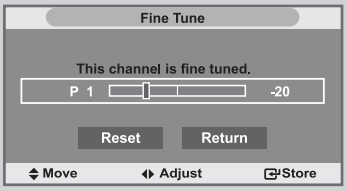
3 Press the ▲ or ▼ button to select **Fine Tune**.
Press the **ENTER** button.

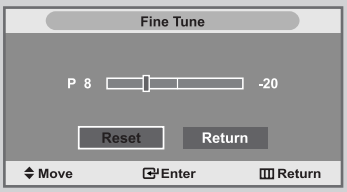
4 Press the ◄ or ► button to reach the required setting.
Press the **ENTER** button.
To reset the fine-tuning, select **Reset** by pressing ▲ or ▼ button and then press the **ENTER** button.

5 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

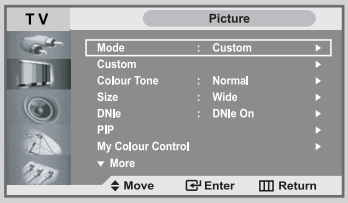


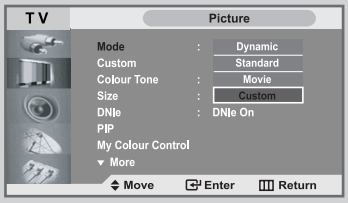


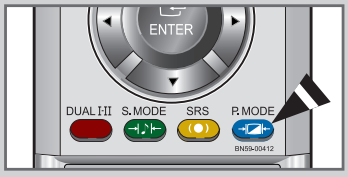




Changing the Picture Standard







You can select the type of picture which best corresponds to your viewing requirements.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** button.

Result: The **Mode** is selected.

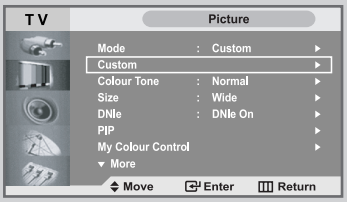
4 Press the **ENTER** button again.
Select the required picture effect by pressing the ▲ or ▼ button repeatedly.
Press the **ENTER** button.

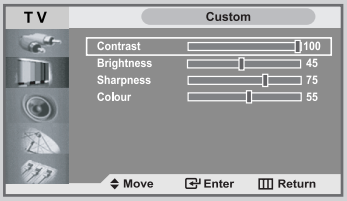
Result: The following picture effects are available:
Dynamic - Standard - Movie - Custom

➢ You can also display simply by pressing the **P.MODE** (Picture Mode) button.

Adjusting the Custom Picture

Your set has several settings which allow you to control picture quality.





1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** button.

4 Press the ▲ or ▼ button to select **Custom** and press the **ENTER** button.

5 Select the option (**Contrast**, **Brightness**, **Sharpness**, **Colour**) to be adjusted by pressing the ▲ or ▼ button.
Press the **ENTER** button.

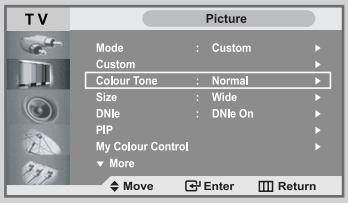
Result: The horizontal bar is displayed.

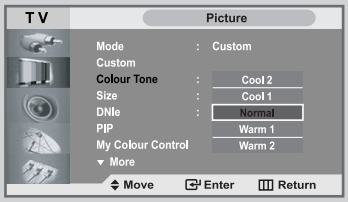
6 Press the ◄ or ► button to reach the required setting.

7 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

If you adjust values in Custom, Mode will be automatically switched to Custom in Picture Mode.

Changing the Colour Tone





You can select the most comfortable colour tone to your eye.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** button.

4 Press the ▲ or ▼ button to select **Colour Tone** and press the **ENTER** button.

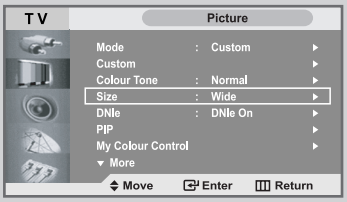
5 Select the required option by pressing the ▲ or ▼ button repeatedly. Press the **ENTER** button.

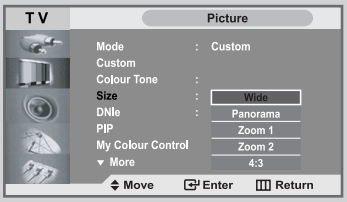
Result: The following options are available:
Cool2 - Cool1 - Normal - Warm1 - Warm2

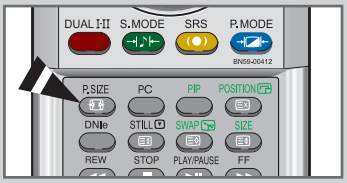
6 When you are satisfied with your choice, press the **EXIT** button to return to normal viewing.

Changing the Picture Size

You can select the picture size which best corresponds to your viewing requirements.







1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** button.

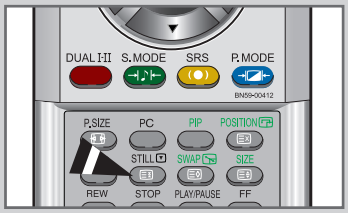
4 Press the ▲ or ▼ button to select **Size** and press the **ENTER** button.

5 Select the required option by pressing the ▲ or ▼ button repeatedly.
Press the **ENTER** button.

Result: The following options are available:
Wide – Panorama – Zoom1 – Zoom2 – 4:3

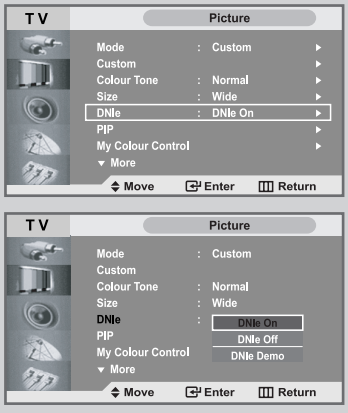
- You can select these options by simply pressing the **P.SIZE**(Picture Size) button on the remote control.
- In PC Mode, only Wide and 4:3 mode can be adjusted.
- In Zoom 1 or 2, use the ▲ or ▼ button to move the picture.

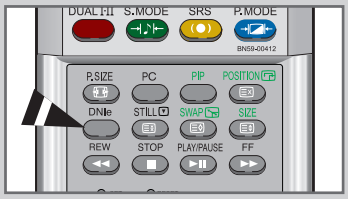
Freezing the Current Picture



Press the "STILL" button to freeze a moving picture into a still one. Press again to cancel.

DNIe (Digital Natural Image engine)





Samsung's new technology brings you more detailed images with contrast and white enhancement. A new image compensation algorithm gives viewers brighter and clearer image.
DNIe technology will match every signal to your eye.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** button.

4 Press the ▲ or ▼ button to select **DNIe** and then press the **ENTER** button.
Select the required option by pressing the ▲ or ▼ button.

Result: The following options are available:
DNIe On - DNIe Off - DNIe Demo

➢ You can also select these options by simply pressing the **DNIe** button.

➢ **DNIe On** Improved picture mode as demonstrated by DNIe Demo is activated.

DNIe Off The mode is deactivated and the screen returns to its original condition.

DNIe Demo The screen shows the improved image on the left-hand side and the original image on the right-hand side.

5 When you are satisfied with your choice, press the **EXIT** button to return to normal viewing.

➢ This function doesn't work when source is in PC mode.

My Colour Control

My Colour Control is to adust the most preferred colours such as Pink, Green, Blue without interfering with other colours in order for each consumer to enjoy screen colour of their choice.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** button.

4 Press the ▲ or ▼ button to select **My Colour Control** and then press the **ENTER** button.

Result: The options available in the **My Colour Control** menu are displayed.

5 Press the ▲ or ▼ button to select **Easy Control** and press the **ENTER** button. Select a source of the sub picture by pressing the ◄ or ► button and press the **ENTER** button.

Result: The sources are displayed in the following order:
Blue - Green - Pink - Standard - Custom

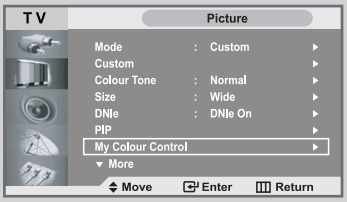
6 Press the ▲ or ▼ button to select **Detail Control** and press the **ENTER** button. Select a source of the sub picture by pressing the ▲ or ▼ button and press the **ENTER** button.

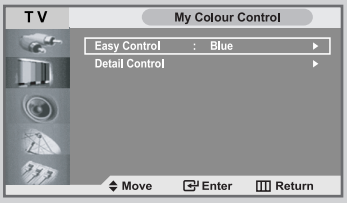
Result: The sources are displayed in the following order:
Blue - Green - Pink - Reset

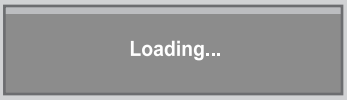
7 Press the ◄ or ► button to reach the required setting.

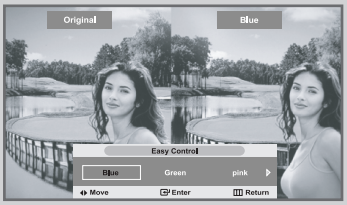
8 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

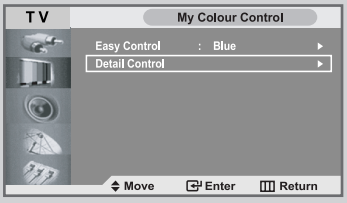
This function doesn't work when source is in PC mode, DNIe is set to off, or PIP is set to on.

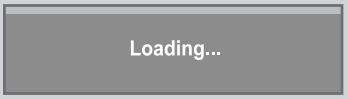


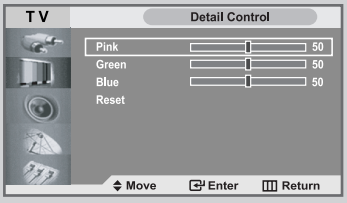


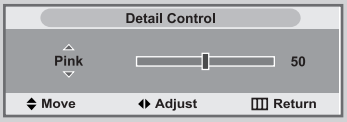




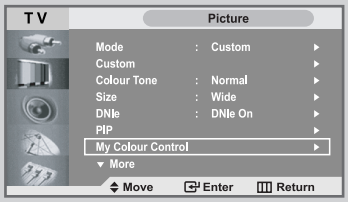


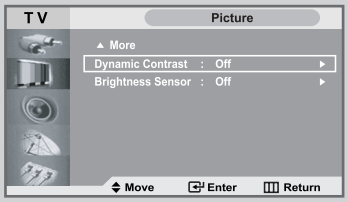


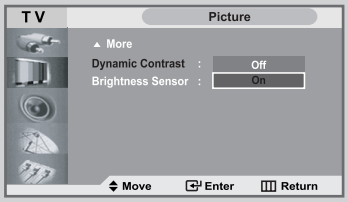




Dynamic Contrast







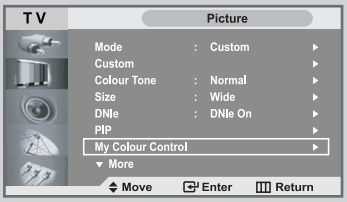
Dynamic Contrast is to automatically detect distribution of inputted visual signal and adjust to create optimum contrast.

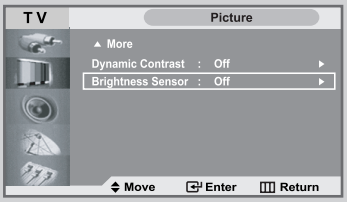
1	Press the **MENU** button. Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Picture**. Result: The options available in the **Picture** group are displayed.
3	Press the **ENTER** button.
4	Press the ▲ or ▼ button to select **Dynamic Contrast**. Press the **ENTER** button. Result: The **Dynamic Contrast** menu is displayed.
5	Select **On** by pressing ▲ or ▼ button. Press the **ENTER** button.
6	When it has finished, press the **EXIT** button to return to normal viewing.

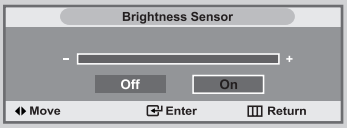
This function doesn't work when source is in PC mode, DNIe is set to off, or PIP is set to on.

Brightness Sensor

Brightness Sensor is to adjust brightness of screen either automatically or manually by detecting brightness of surrounding environment using light detecting sensor.







1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** button.

4 Press the ▲ or ▼ button to select **Brightness Sensor**.
Press the **ENTER** button.

Result: The **Brightness Sensor** menu is displayed.

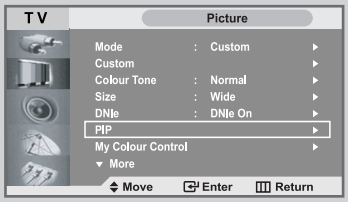
5 Select **On** by pressing ◄ or ► button.

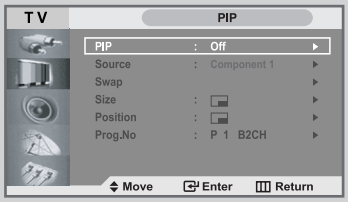
Result: Brightness on the screen is adjusted automatically according to brightness of surrounding environment.

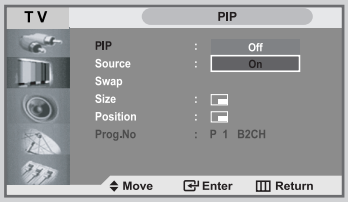
6 When it has finished, press the **EXIT** button to return to normal viewing.

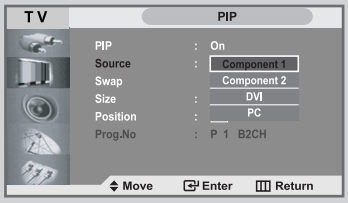
This function doesn't work when source is in PC mode.

Viewing the Picture In Picture (PIP)

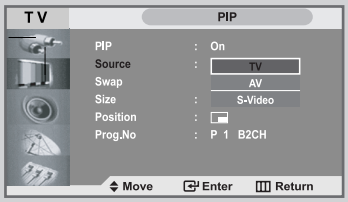


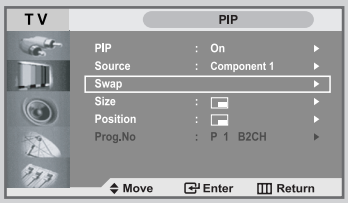


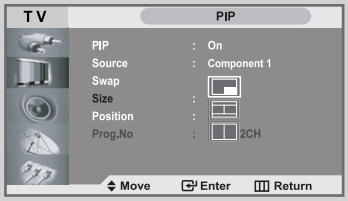




[Component 1/Component 2/DVI/PC Only]







You can display a sub picture within the main picture of set programme or video input. In this way, you can watch the picture of set programme or vidio input from any connected equipment whiling watching the main picture.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** button.

4 Press the ▲ or ▼ button to select **PIP** and then press the **ENTER** button.

Result: The options available in the **PIP** menu are displayed.

5 Press the **ENTER** button again.
Select **On** by pressing the ▲ or ▼ button and then press the **ENTER** button.

6 Press the ▲ or ▼ button to select **Source** and press the **ENTER** button. Select a source of the sub picture by pressing the ▲ or ▼ button and press the **ENTER** button.

Result: The sources are displayed in the following order:
When main picture is set to TV/AV/S-Video, only Component 1/Component 2/DVI/PC can be selected and when main picture is set to Component 1/Component 2 /DVI/PC, TV/AV/S-Video can be selected.

7 Press the ▲ or ▼ button to select **Swap.**
To interchange the main picture and the sub picture, select **Swap** option and press the **ENTER** button.

Result: The main picture and the sub picture are interchanged.

8 Press the ▲ or ▼ button to select **Size** of sub picture and then press the **ENTER** button.
Select a size of the sub picture by pressing the ▲ or ▼ button and then press the **ENTER** button.

Result: The sizes are displayed in the following order.

Viewing the Picture In Picture (PIP)

9 Press the ▲ or ▼ button to select **Position** and then press the **ENTER** button.
Select the position of sub picture by pressing the ▲ or ▼ button and then press the **ENTER** button.

Result: You can move the sub picture.

➢ When the size of sub picture is set to or , this feature does not work.

10 Press the ▲ or ▼ button to select **Prog.No** and then press the **ENTER** button.
You can select the channel that you want to view through sub picture by pressing the ▲ or ▼ button.

Result: The memorized **Prog.No** is displayed.

➢ **MAIN: Component 1/Component 2/DVI/PC, PIP:TV**
"Prog.No" is inactive and not available in TV mode. However, they become active and available in Component 1/Component 2/DVI/PC mode.

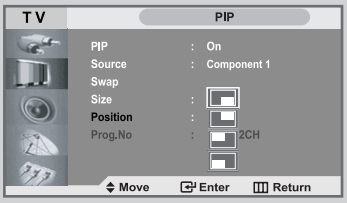
11 To return to normal viewing, press the **EXIT** button.

➢ **Remote-control functions while "PIP" is "On":**

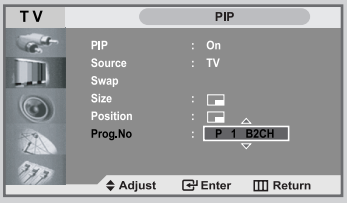
Features	Description
PIP	Used to operate On/Off function of PIP directly.
SWAP	Used to interchange the main picture and the sub picture. ➢ When the main picture is in the video mode and the sub picture is in the set mode, you might not hear the sound of main picture when pressing the **SWAP** button after changing the sub picture channel. At this time, reselect the main picture channel.
POSITION	You also move the sub picture simply by pressing the **POSITION** button.
SIZE	Select a size of the sub picture by pressing the **SIZE** button.

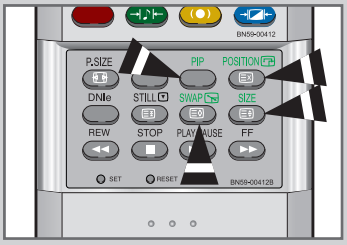
➢ **PIP Settings**

Main \ Sub	TV	AV	S-Video	Component 1	Component 2	DVI	PC
TV	X	X	X	O	O	O	O
AV	X	X	X	O	O	O	O
S-Video	X	X	X	O	O	O	O
Component 1	O	O	O	X	X	X	X
Component 2	O	O	O	X	X	X	X
DVI	O	O	O	X	X	X	X
PC	O	O	O	X	X	X	X



[Component 1/Component 2/DVI/PC Only]





Adjusting the Volume

You can adjust the volume using your remote control.

Press the **VOL**(**+**) button to increase the volume.

Result: A horizontal bar is displayed and the volume increases until you release the button. The cursor moves to the right to indicate the volume.

Press the **VOL**(**-**) button to decrease the volume.

Result: A horizontal bar is displayed and the volume decreases until you release the button. The cursor moves to the left to indicate the volume.

Additional sound adjustments are available on your set.
For further details, refer to pages **33** to **37**.

Switching the Sound Off Temporarily

You can switch the sound off temporarily.

Example: You wish to answer the telephone.

1 Press the **MUTE** (🔇) button.

Result: The sound is switched off and **"Mute"** is displayed.

2 When you wish to turn the sound back on, press the **MUTE** (🔇) button again or either of the volume buttons.

Result: The sound comes back on at the same volume as before and the **"Mute"** indication disappears.

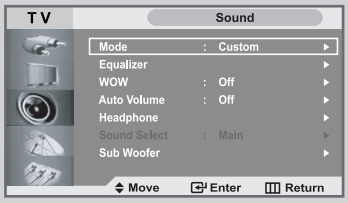
Selecting the Sound Mode

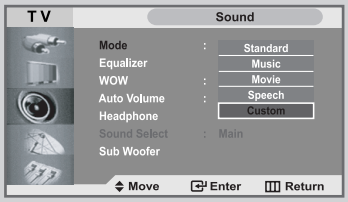
You can set the sound mode by pressing the "DUAL I-II" button. When you press it, current sound mode is displayed on the screen.

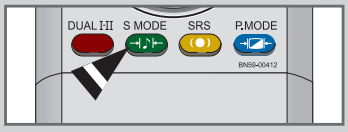
	Audio Type	DUAL 1/2	Default
FM Stereo	Mono	**MONO**	Automatic change
	Stereo	**STEREO ↔ MONO**	
	Dual	**DUAL 1 ↔ DUAL 2**	DUAL 1
	Mono	**MONO**	Automatic change
NICAM Stereo	Stereo	**MONO ↔ STEREO**	
	Dual	**MONO ↔ DUAL 1** **DUAL 2**	DUAL 1

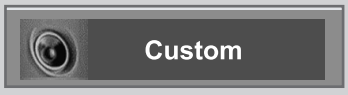
- If the receiving conditions deteriorate, listening will be easier if the mode is set to **Mono**.
- If the stereo signal is weak and automatic switching occurs, switch to **Mono**.

Changing the Sound Standard







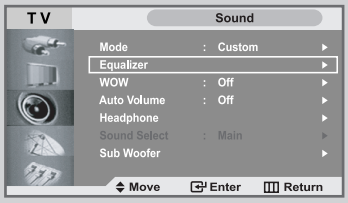


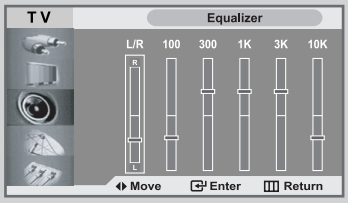
You can select the type of special sound effect to be used when watching a given broadcast.

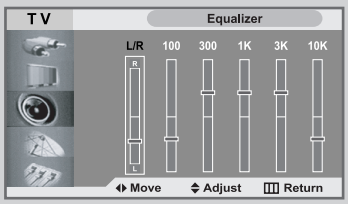
1. Press the **MENU** button.
   Result: The main menu is displayed.
2. Press the ▲ or ▼ button to select **Sound**.
   Result: The options available in the **Sound** group are displayed.
3. Press the **ENTER** button.
   Result: The **Mode** is selected.
4. Press the **ENTER** button again.
5. Select the required sound effect by pressing the ▲ or ▼ button repeatedly and then press the **ENTER** button.
   The following sound effects are available:
   Standard - Music - Movie - Speech - Custom

You can also select these options by simply pressing the **S.MODE** (Sound Mode) button on the remote control.

Adjusting the Sound Settings





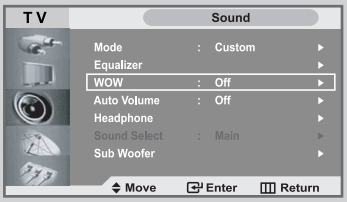


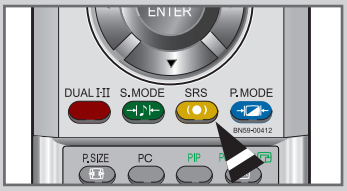
The sound settings can be adjusted to suit your personal preferences.

1. Press the **MENU** button.
   Result: The main menu is displayed.
2. Press the ▲ or ▼ button to select **Sound**.
   Result: The options available in the **Sound** group are displayed.
3. Press the **ENTER** button.
4. Select **Equalizer** by pressing the ▲ or ▼ button and then press the **ENTER** button.
5. Select the required option by pressing the ◄ or ► button.
6. Press the ▲ or ▼ button to reach the required setting.
7. When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

Selecting WOW Surround

Select the Wow Surround feature to amplify the mid- to low-range sounds or create a surround sound effect.





1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.

Result: The options available in the **Sound** group are displayed.

3 Press the **ENTER** button.

4 Press the ▲ or ▼ buttons to select **WOW.**
press the **ENTER** button.

5 Press the ▲ or ▼ button to select **Off/On**.
Press the **ENTER** button.

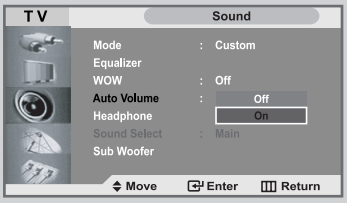
6 Press the **EXIT** button to return to normal viewing.

➢ Select On/Off with **SRS** button on the remote control as well.

SRS WOW is a trademark of SRS Labs,Inc.
WOW technology is incorporated under license from SRS labs, Inc.

Adjusting the Volume Automatically

Each broadcasting station has its own signal conditions, and so it is not easy for you to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.



1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.
Press the **ENTER** button.

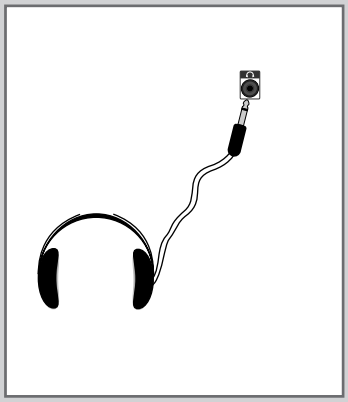
Result: The options available in the **Sound** group are displayed.

3 Press the ▲ or ▼ button to select **Auto Volume.**
Press the **ENTER** button.

4 Select **On** by pressing the ▲ or ▼ button.
Press the **ENTER** button.

5 Press the **EXIT** button to return to normal viewing.

Connecting Headphones



You can connect a set of headphones to your set if you wish to watch a TV programme without disturbing the other people in the room.

Plug a set of headphones into the 3.5mm mini-jack socket on the rear panel of the set.

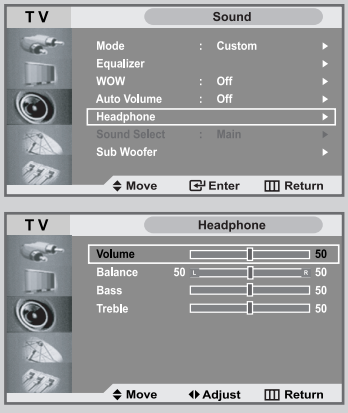
Result: The sound is heard through the headphones.

➢ For further details on how to set your headphone preferences, refer to the section below.

➢ Prolonged use of headphones at a high volume may damage your hearing.

➢ You will not receive sound from the speakers when you connect headphones to the system.

Adjusting Your Headphone Preferences



You can adjust the headphone settings to suit your preferences.

The following headphones settings are available:

- ***Volume, Balance, Bass, Treble.***

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.

Result: The options available in the **Sound** group are displayed.

3 Press the **ENTER** button.

4 Press the ▲ or ▼ button to select **Headphone**.
Press the **ENTER** button.

Result: The **Headphone** sound menu (**Volume, Balance, Bass, Treble**) is displayed.

To...	Then...
Change the option	Press the ▲ or ▼ button.
Change a setting	Press the ◄ or ► button.
Confirm the changes	Press the **ENTER** button.

Listening to the Sound of the Sub Picture

During the PIP feature is activating, you can listen to the sound of the sub picture.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.

Result: The options available in the **Sound** group are displayed.

3 Press the **ENTER** button.

4 Press the ▲ or ▼ button to select **Sound Select** and then press the **ENTER** button.

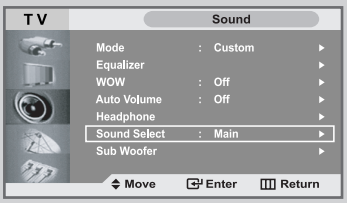
Result: **Main** and **Sub** are displayed.

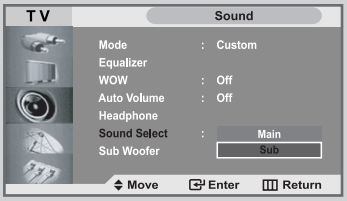
➢ You can select this option when the PIP is **"On"**.

5 Select the **Sub** by pressing the ▲ or ▼ button.
Press the **ENTER** button.

Result: You can listen to the sound of the sub picture.

➢ To listen the sound of current main picture, set to **Main**.





Sub Woofer

Sub Woofer is a speaker that complements front speaker's reproduction capability of low-pitched sound.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.

Result: The options available in the **Sound** group are displayed.

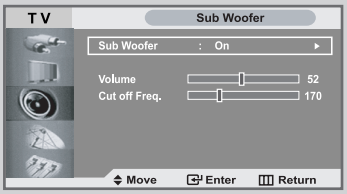
3 Press the **ENTER** button.

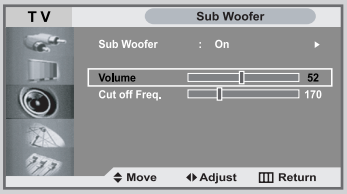
4 Press the ▲ or ▼ button to select **Sub Woofer.**
Press the **ENTER** button.

5 Press the **ENTER** button.
Select **On** by pressing the ▲ or ▼ button and then press the **ENTER** button.

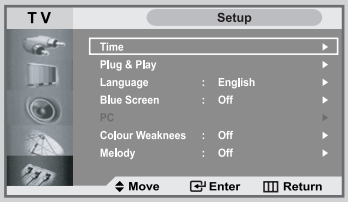
Result: The **Sub Woofer** menu (**Volume, Cut off Freq.**) is displayed.

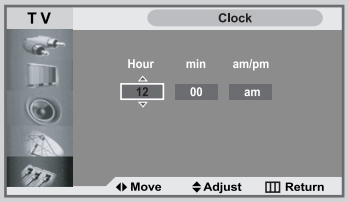
To...	Then...
Change the option	Press the ▲ or ▼ button.
Change a setting	Press the ◄ or ► button.
Confirm the changes	Press the **ENTER** button.

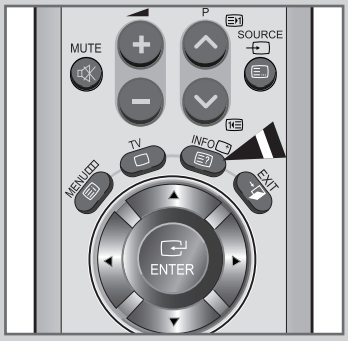


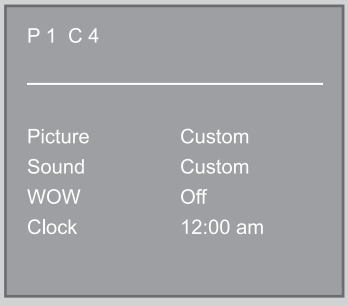


Setting and Displaying the Current Time









You can set the TV'S clock so that the current time is displayed when you press the "INFO" button. You must also set the time if you wish to use the automatic On/Off timers.

➢ If you disconnect the power cord, you have to set the clock again.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.
Press the **ENTER** button

Result: The options available in the **Setup** group are displayed with **Time** selected.

3 Press the **ENTER** button.

Result: The **Time** menu is displayed with **Clock** selected.

4 Press the **ENTER** button.

5

To...	Press the...
Move to **Hour, min** or **am/pm**	◄ or ► button
Set the **Hour, min** or **am/pm**	▲ or ▼ button

6 When you have satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

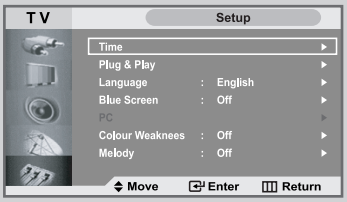
7

To display the...	Press the...
Current time and selected audio/video setting status	**INFO** button

➢ You can also set hour and minute by pressing number buttons on the remote control.

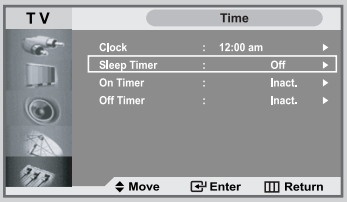
Setting the Sleep Timer

You can select a time period of between 30 and 180 minutes after which the television automatically switches to standby mode.



1 Press the **MENU** button.

Result: The main menu is displayed.



2 Press the ▲ or ▼ button to select **Setup**.
Press the **ENTER** button

Result: The options available in the **Setup** group are displayed with **Time** selected.

3 Press the **ENTER** button.

Result: The **Time** menu is displayed with **Clock** selected.

4 Press the ▲ or ▼ button to select **Sleep Timer**.
Press the **ENTER** button.

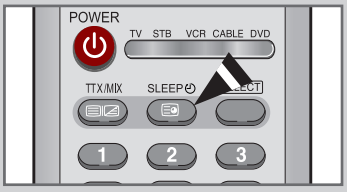
5 Press the ▲ or ▼ button repeatedly and cycle through the preset time intervals (--, 30, 60, 90, 120, 150, 180).

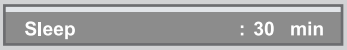
Result: The TV automatically switches to standby mode when the timer reaches 0.

6 To cancel the sleep timer function, select **Activation** by pressing the ◄ or ► button and then select **"No"** by pressing the ▲ or ▼ button. Press the **ENTER** button.

7 Press the **EXIT** button to return to normal viewing.

You can set the sleep timer by simply pressing the "**SLEEP**" button on the remote control.



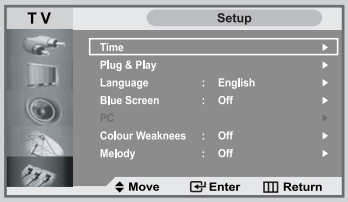


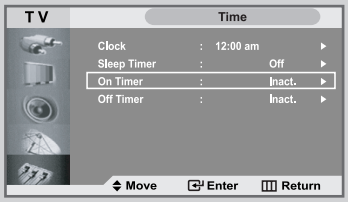
1 Press the **SLEEP** button on the remote control.

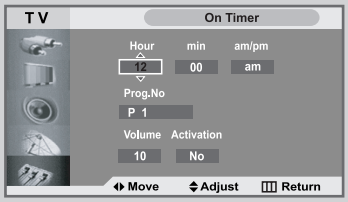
Result: If the sleep timer is not yet set, **Off** is displayed. Otherwise, the remaining time before which the television switches to standby mode is displayed.

2 Select the preset time interval for staying on by pressing the **SLEEP** button repeatedly.

Switching the Television On and Off Automatically







You can set the On/Off timers so that the set will:

- ***Switch on automatically and tune to the channel of your choice at the time you select.***
- ***Switch off automatically at the time you select.***

➢ The first step is to set the television's clock
(refer to "Setting and Displaying the Current Time" on page 38).

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.
Press the **ENTER** button

Result: The options available in the **Setup** group are displayed with **Time** selected.

3 Press the **ENTER** button.

Result: The **Time** menu is displayed with **Clock** selected.

4 Press the ▲ or ▼ button to select **On Timer.**
Press the **ENTER** button.

Result: The **On Timer** menu is displayed.

5 Set the time, channel and volume level at which you wish the set to be switched on.

To...	Press the...
Move to **Hour, min, am/pm, Prog.No** and **Volume**	◄ or ► button
Set **Hour, min, am/pm, Prog.No** and **Volume**	▲ or ▼ button
Move to **Activation**	◄ or ► button
Select **Yes** to enable above setting	▲ or ▼ button

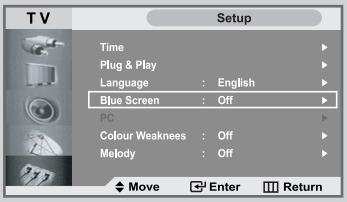
Press the **ENTER** button.

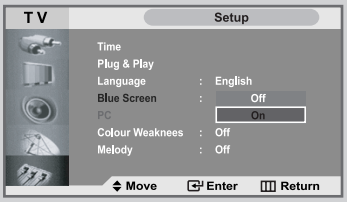
6 Press the ▲ or ▼ button to select **Off Timer.**
In the same way, set the time at which you wish the set to be switched off automatically.

➢ You can also set hour and minute by pressing number buttons on the remote control.

Setting the Blue Screen Mode

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background.
If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".





1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.
Press the **ENTER** button

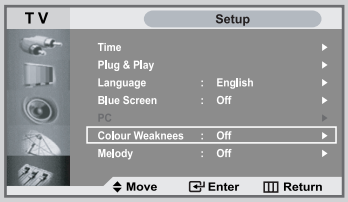
Result: The options available in the **Setup** group are displayed.

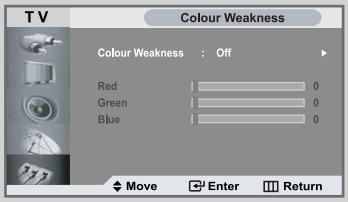
3 Press the ▲ or ▼ button to select **Blue Screen.**
Press the **ENTER** button.

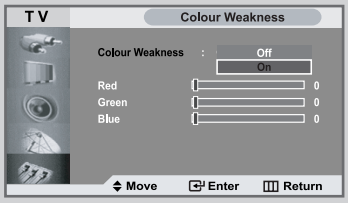
4 Select **On** by pressing the ▲ or ▼ button.
Press the **ENTER** button.

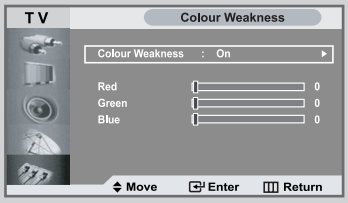
5 Press the **EXIT** button to return to normal viewing.

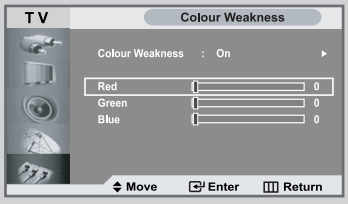
Colour Weakness

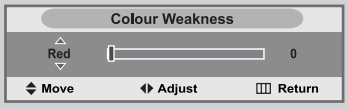












Colour Weakness is a feature that enables those with a Colour Weakness to view images as those with normal colour vision do. The feature provides nine different colour adjustment layers each for red, green and blue.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.
Press the **ENTER** button

Result: The options available in the **Setup** group are displayed.

3 Press the ▲ or ▼ button to select **Colour Weakness.**
Press the **ENTER** button.

4 Press the **ENTER** button.
Select **On** by pressing the ▲ or ▼ button.

5 Press the **ENTER** button.
Press the ▲ or ▼ button to select **Red**, **Green** and **Blue**.
Press the **ENTER** button.

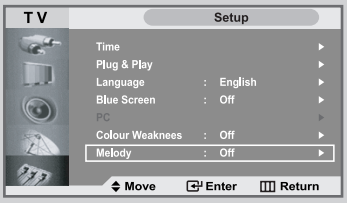
6 Press the ◄ or ► button to adjust the **Colour Weakness.**

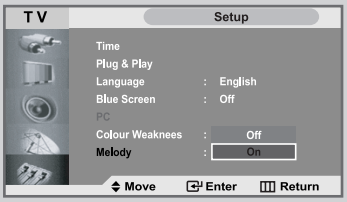
7 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

➢ This function doesn't work when source is in PC mode or DNIe is set to off.

Selecting the Melody

You can hear melody sound when the television is powered on or off.





1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.
Press the **ENTER** button

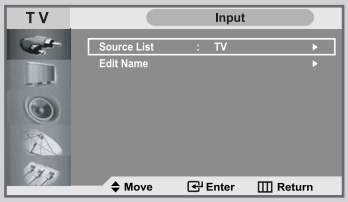
Result: The options available in the **Setup** group are displayed.

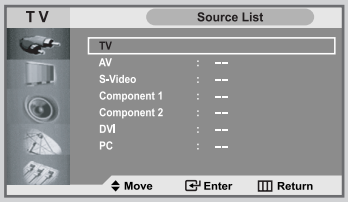
3 Press the ▲ or ▼ button to select **Melody.**
Press the **ENTER** button.

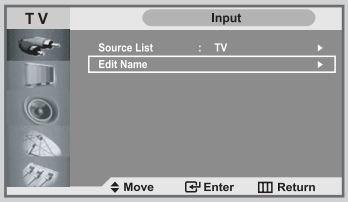
4 Select **On** by pressing the ▲ or ▼ button.
Press the **ENTER** button.

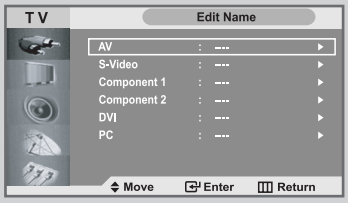
5 Press the **EXIT** button to return to normal viewing.

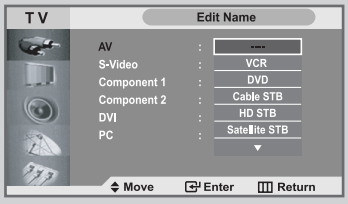
Selecting a Device from External Sources











Your set enables you to choose which audio/video signals are output to the external connector.

1 Press the **MENU** button.
Press the **ENTER** button to select **Input.**

Result: The options available in the **Input** group are displayed.

2 Press the **ENTER** button.

Result: The options available in the **Source List** menu are displayed.

3 Select the required device by pressing the ▲ or ▼ button.
Press the **ENTER** button.

4 Repeat step **1**.
Press the ▲ or ▼ button to select **Edit Name**.
Press the **ENTER** button.

Result: The options available in the **Edit Name** menu are displayed.

5 Select the device that you wish to edit by pressing the ▲ or ▼ button.

Result: The following options are available:
AV - S-Video - Component 1 - Component 2 - DVI - PC

6 Press the **ENTER** button.

7 Select the required device by pressing the ▲ or ▼ button repeatedly.

Result: The following options are available:
---- - VCR - DVD - Cable STB - HD STB - Satellite STB - AV Receiver - DVD Receiver - Game - Camcorder - DVD Combo - DHR - PC

➢ PC mode dose not support STB.

8 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

Viewing Pictures from External Sources

Once you have connected up your various audio and video systems, you can view the different sources by selecting the appropriate input.

1 Check that all the necessary connections have been made.

2 Press the **SOURCE** button.

Result: The edited device and audio status are displayed on top-left of the set.

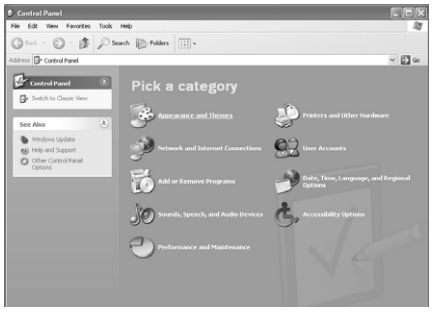
3 Press the **SOURCE** button until the required input source is selected.

➢ If you change the external source while viewing, pictures might take a short period of time to be switched.

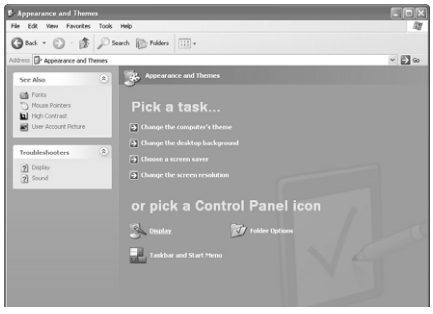
Setting up Your PC Software (Based on Widows XP)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1 First, click on "**Control Panel**" on the Windows start menu.



2 When the control panel window appears, click on "**Appearance and Themes**" and a display dialog-box will appear.



3 When the control panel window appears, click on "**Display**" and a display dialog-box will appear.

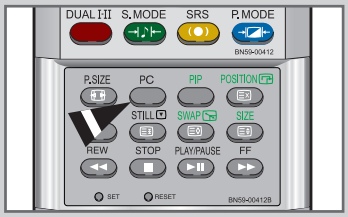
4 Navigate to the "**Settings**" tab on the display dialog-box.

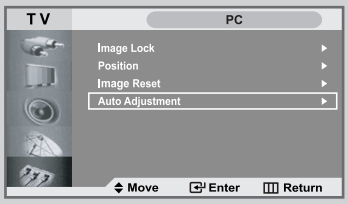
The correct size setting (resolution)
- 1280 X 768 pixels

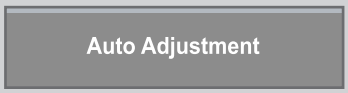
If a vertical-frequency option exists on your display settings dialog box, the correct value is "**60**" or "**60 Hz**". Otherwise, just click "**OK**" and exit the dialog box.

*See "Display Modes" on page 58.

Adjusting the PC Screen Automatically







Auto adjustment allows the PC screen of set to self-adjust to the incoming PC video signal.
The values of fine, coarse and position are adjusted automatically.

➢ Press the **PC** button on the remote control to select the PC mode.
➢ This function does not work in **DVI-Digital** mode.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.
Press the **ENTER** button

Result: The options available in the **Setup** group are displayed.

3 Press the ▲ or ▼ button to select **PC**.
Press the **ENTER** button.

Result: The options available in the **PC** menu are displayed.

4 Press the ▲ or ▼ button to select **Auto Adjustment**.
Press the **ENTER** button.

Result: After the PC screen twists during the auto adjustment procedure, the screen quality and position are automatically adjusted.

Coarse and Fine Tuning of the Image

The purpose of picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by Fine tuning alone, then adjust the frequency as best as possible (coarse) and Fine tune again. After the noise has been reduced, re-adjust the picture so that it is aligned on the center of screen.

➢ Press the **PC** button on the remote control to select the PC mode.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.
Press the **ENTER** button

Result: The options available in the **Setup** group are displayed.

3 Press the ▲ or ▼ button to select **PC**.
Press the **ENTER** button.

Result: The options available in the **PC** menu are displayed.

4 Press the **ENTER** button again.

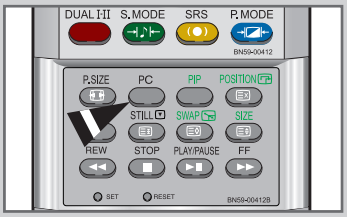
Result: The **Image Lock** menu is selected.

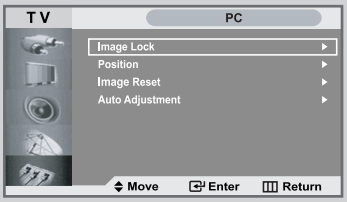
5 Press the ▲ or ▼ button to select **Coarse** or **Fine**.
Press the **ENTER** button.

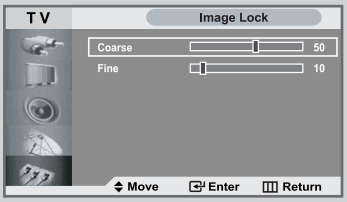
Result: The horizontal bar is displayed.

6 Press the ◄ or ► button to adjust the screen quality.
Vertical stripes may appear or the picture may become blurry.

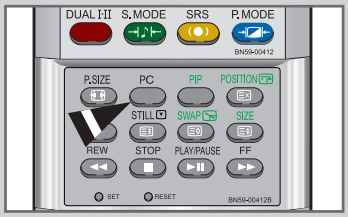
7 When you are satisfied with the settings, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

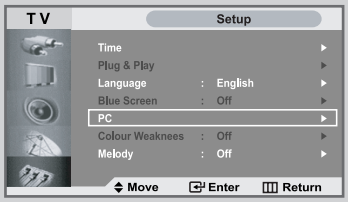


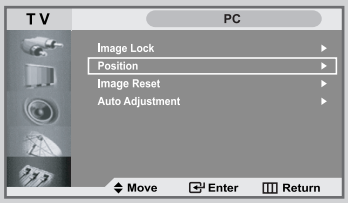


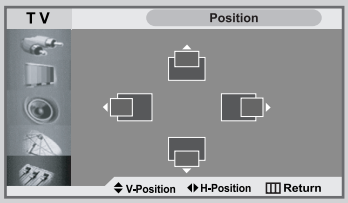


Changing the Image Position









➢ Press the **PC** button on the remote control to select the PC mode.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.
Press the **ENTER** button.

3 Press the ▲ or ▼ button to select **PC**.
Press the **ENTER** button.

Result: The options available in the **PC** menu are displayed.

4 Press the ▲ or ▼ button to select **Position**.
Press the **ENTER** button.

Result: You can adjust the image **Position**.

5 Press the ◄ or ► button to adjust horizontal position.
Press the ▲ or ▼ button to adjust vertical position.

6 Press **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

Initializing the Image Settings

You can replace all image settings with the factory default values.

➢ Press the **PC** button on the remote control to select the PC mode.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.
Press the **ENTER** button.

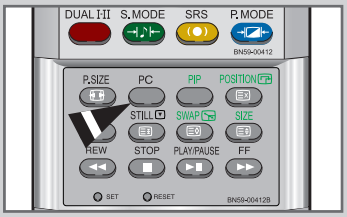
3 Press the ▲ or ▼ button to select **PC**.
Press the **ENTER** button.

Result: The options available in the **PC** menu are displayed.

4 Press the ▲ or ▼ button to select **Image Reset**.
Press the **ENTER** button.

Result: You can initialize all image setting to the factory default values.

5 Press the **ENTER** button to return to the previous menu or press the **EXIT** button to return to normal viewing.



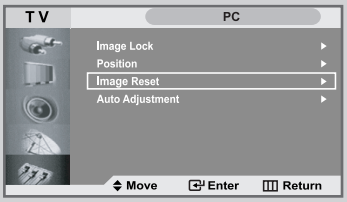
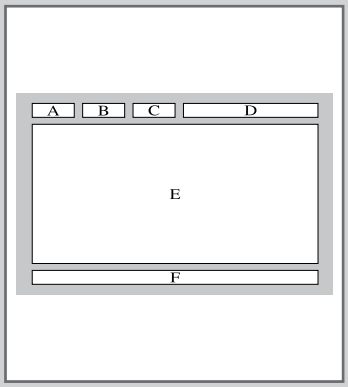


Image Reset is Completed.

Teletext Decoder



Most set channels carry " teletext ", pages of written information that provide information such as:

- ***Television programme times.***
- ***News bulletins and Weather forecasts.***
- ***Sports results.***
- ***Subtitles for the hard of hearing.***

The teletext pages are organized according to six categories:

Part	Contents
A	Selected page number.
B	Broadcasting station identity.
C	Current page number or search status.
D	Date and time.
E	Text.
F	Status information.

Displaying the Teletext Information

You can display teletext information at any time, but signal reception must be good. Otherwise:

- ***Information may be missing.***
- ***Some pages may not be displayed.***

To activate the teletext mode and display the contents page.

1 Using the **P** ∧ (📖) or **P** ∨ (📖) button, select the channel providing the teletext service.

2 Press the **TTX/MIX** (📖/📖) button to activate the teletext mode.

Result: The contents page is displayed. It can be redisplayed at any time by pressing the **INDEX** (📖) button.

3 To display the actual broadcast simultaneously with the teletext page, press the **TTX/MIX**(📖/📖) button.

4 To return to normal viewing, press the **CANCEL**(📖) button.

5 Press the **TTX/MIX**(📖/📖) button again to exit from the TTX display.

➢ If any broken character appears while TTX is being viewed, make sure that the TTX language is identical with the language in the "Setup" menu mode. If both languages are different, select the same language with the TTX language on the "Setup" menu.

Selecting a Specific Teletext Page

Press the number buttons on the remote control to enter the page number directly.

1 Enter the three-digit page number listed in the contents by pressing the corresponding numeric buttons.

Result: The current page counter is incremented and the page is then displayed.

2 If the selected page is linked with several secondary pages, the secondary pages are displayed in sequence. To freeze the display on a given page, press the **HOLD** ( ).
Press the **HOLD** ( ) button again to resume.

3 Using the various display options:

To display...	Press the...
◆ Both teletext information and the normal broadcast	**TTX/MIX** (/)
◆ Hidden text (answers to quiz games, for example)	**REVEAL** ( )
◆ The normal screen	**REVEAL** ( ) again
◆ A secondary page, by entering its 4-digit number	**SUB-PAGE** ( )
◆ The next page	**PAGE UP** ( )
◆ The previous page	**PAGE DOWN** ( )
◆ Double-size letters in the: • Upper half of the screen • Lower half of the screen	**SIZE** ( ) •Once •Twice
◆ Normal screen	•Three times

Using FLOF to Select a Teletext Page

The various topics included in the teletext pages are colour-coded, and can be selected by pressing the coloured buttons on the remote control.

1 Display the teletext contents page by pressing the **TTX/MIX** (▤/◪) button.

2 Press the coloured button corresponding to the topic that you wish to select (The available topics are listed on the status information line).

Result: The page is displayed with additional colour-coded information that can be selected in the same way.

3

To display the:	**Press the:**
Previous page	Red button.
Next page	Green button.

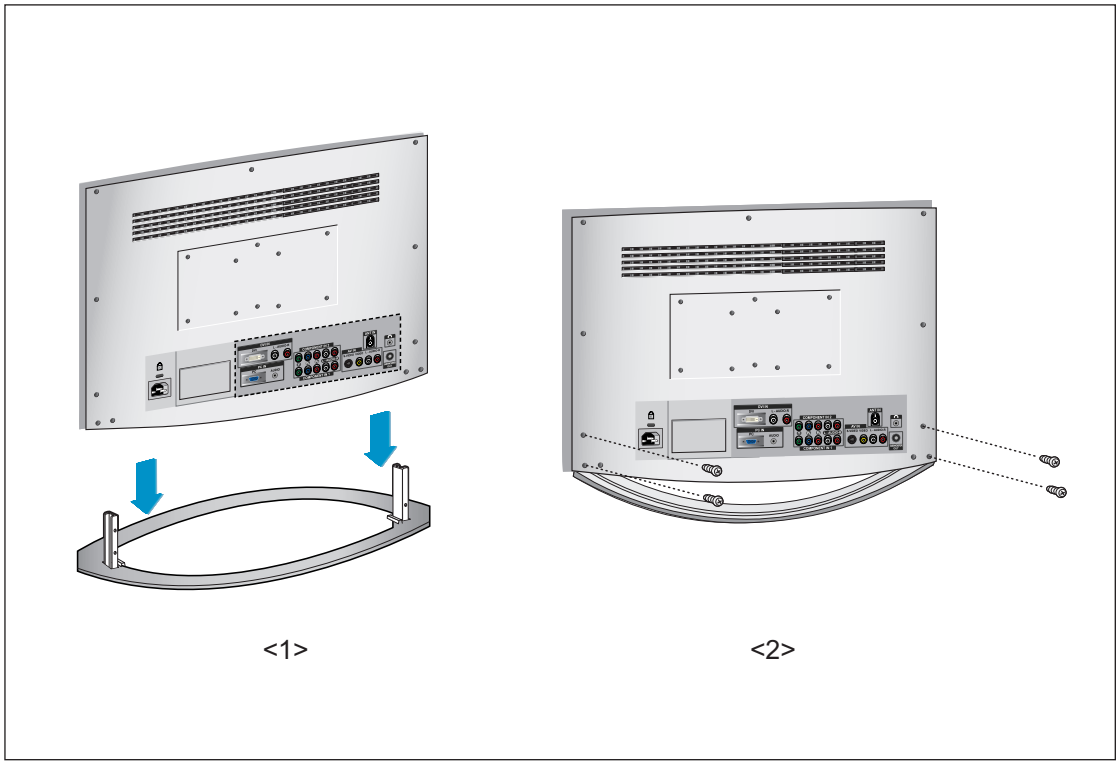
4 When you have finished, press the **CANCEL**(▤) button to return to the normal broadcast.

Troubleshooting: Before Contacting Service Personnel

Before contacting Samsung after-sales service, perform the following simple checks.
If you cannot solve the problem using the instructions below, note the model and serial number of your set and contact your local dealer.

No sound or picture	◆ Check that the mains lead has been connected to a wall socket. ◆ Check that you have pressed the **POWER** (⏻) button on the right-side of the TV. ◆ Check the picture contrast and brightness settings. ◆ Check the volume.
Normal picture but no sound	◆ Check the volume. ◆ Check whether the **MUTE** (🔇) button has been pressed on the remote control.
No picture or black and white picture	◆ Adjust the colour settings. ◆ Check that the broadcast system selected is correct.
Sound and picture interference	◆ Try to identify the electrical appliance that is affecting the set and move it further away. ◆ Plug your set into a different mains socket.
Blurred or snowy picture, distorted sound	◆ Check the direction, location and connections of your aerial. This interference is often due to the use of an indoor aerial.
Remote control malfunctions	◆ Replace the remote control batteries. ◆ Clean the upper edge of the remote control (transmission window). ◆ Check the battery terminals.
"Check signal cable." message is displayed.	◆ Check that the signal cable is firmly connected to the PC or video sources. ◆ Check that the PC or video sources are turned on.
On PC mode, "Not Supported Mode" message is displayed.	◆ Check the maximum resolution and the frequency of the video adapter. ◆ Compare these values with the data in the Display Modes .
The image is too light or too dark.	◆ Adjust the Brightness and Contrast.
On PC mode, horizontal bars appear to flicker, jitter or shimmer on the image.	◆ Adjust the Fine function.
On PC mode, vertical bars appear to flicker, jitter or shimmer on the image.	◆ Adjust the Coarse function and then adjust the Fine function.
On PC mode, screen is black and power indicator light blinks every 1 second.	◆ The TV is using its power management system. ◆ Move the computer's mouse or press any key on the keyboard.
On PC mode, image is not stable and may appear to vibrate.	◆ Check that the display resolution and frequency from your computer or video board is an available mode for your set. On your computer check: Control Panel, Display, Settings. ◆ If the setting is not correct, use your computer utility programme to change the display settings. ➢ Your set supports multiscan display functions within the following frequency domain: ◆**Horizontal frequency:** 30 ~ 68 kHz ◆**Vertical frequency:** 56 ~ 85 Hz ◆**Maximum refresh rate:** 1280 X 768@60Hz
On PC mode, image is not centered on the screen.	◆ Adjust the horizontal and vertical position.

Installing Stand



<1> <2>

1. Lower the TV set in the direction of the arrow and fix the stand.
2. Use the four screws to tightly fix the stand.

Maintenance of Your LCD TV

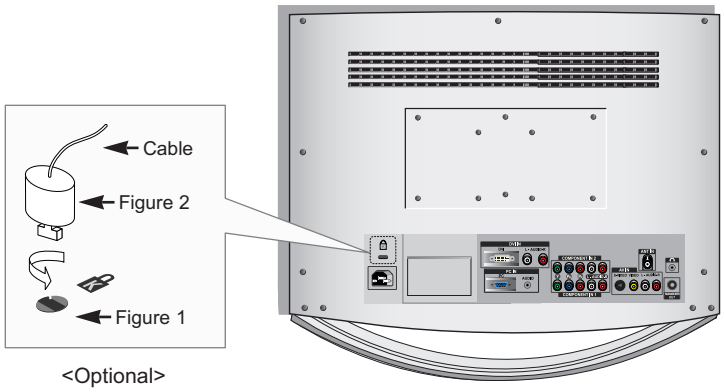
WARNING: To avoid risk of electric shock, do not disassemble the TV cabinet.
Users cannot service the TV. User maintenance is restricted to cleaning as explained below:

Unplug the LCD TV from the power outlet before cleaning.

- To clean your flat panel display screen, lightly dampen a soft, clean cloth with water or mild detergent. If possible, use a special screen cleaning tissue or solution suitable for the antistatic coating.
- To clean the LCD TV cabinet, use a cloth lightly dampened with a mild detergent.
- Never use flammable cleaning material to clean your LCD TV or any other electrical apparatus.

Using the Anti-Theft Kensington Lock

The Kensington lock is a device used to physically fix the system when using it in a public place.
The locking device has to be purchased separately. The appearance and locking method may differ from the illustration depending on the manufacturer. Please refer to the manual provided with the Kensington lock for proper use.

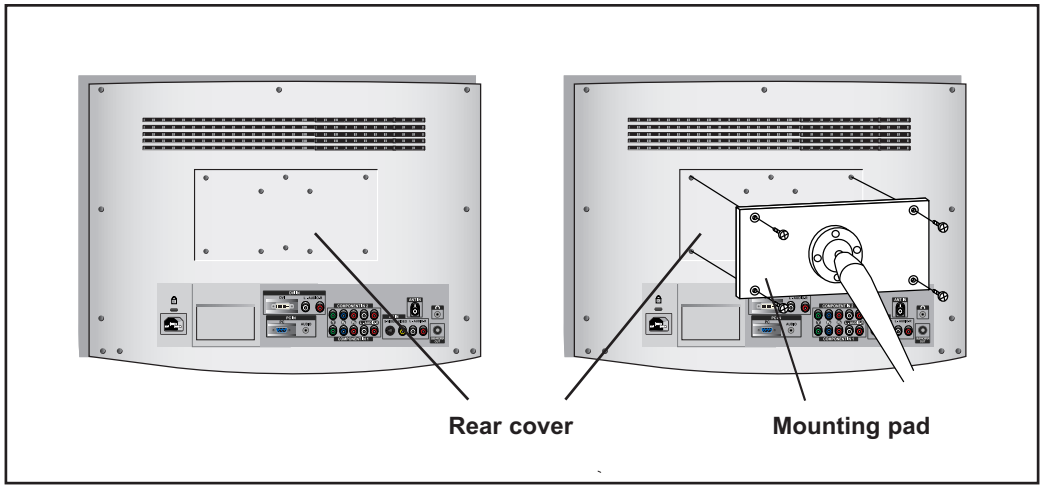


1. Insert the locking device into the Kensington slot on the LCD TV (Figure 1), and turn it in the locking direction (Figure 2).
2. Connect the Kensington lock cable.
3. Fix the Kensington lock to a desk or a heavy stationary object.

Installing VESA Compliant Mounting Devices (Sold separately)

Align the mounting interface pad with the holes in the rear cover mounting pad and secure it with the four screws that come with the arm-type base, wall mount hanger or other bases.

➢ **This TV accepts a 200mmx100mm VESA-Compliant mounting interface pad.**



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Technical and Environmental Specifications

Model Name	LS26A33W
Panel	
Size	26” Diagonal
Display Size	556.4 (H) x 339.84 (V) mm
Type	a-si TFT active matrix
Pixel Pitch	0.4425 (H) x 0.4425 (V) mm
Viewing Angle	170/170 (H/V)
Frequency	
Horizontal	30 ~ 68 kHz
Vertical	56 ~ 85 Hz
Display Colour	16,777,216 colours
Resolution	
Maximum	1280 x 768 @ 60 Hz
Input Signal	
Sync.	H/V Separate, TTL, P. or N.
Video Signal	0.7 Vp-p @ 75 ohm
TV	
Colour System	PAL/SECAM/NTSC 4.43/NTSC 3.58
Sound System	BG, DK, I, M
Video	
Colour System	PAL/NTSC/SECAM
Video System	CVBS, S-VHS, RGB
Component1/2	
Video In	1.0 Vp-p @ 75 ohm
Audio In	500mVrms
Power Supply	
Input	AC 100 ~ 240 V, 60/50 Hz ±3Hz
Power Consumption	
Maximum	130W
Power Saving	< 5.0 W
Dimension (W x D x H)	
Body	29.17x 4.68 x 16.92 inches (741.0 x 119.0 x 498.5 mm)
With stand	29.17x 10.89 x 20.70 inches (741.0 x 276.8 x 526.0 mm)
Weight	
With stand	33.07 lbs (15.0 kg)

Technical and Environmental Specifications

Model	LS26A33W
Environmental Considerations	
Operating Temperature	50 °F to 104 °F (10 °C to 40 °C)
Operating Humidity	10% to 80%, non-condensing
Storage Temperature	-13 °F to 113 °F (-25 °C to 45 °C)
Storage Humidity	5% to 95%, non-condensing
Audio Characteristics	
Audio Input	RCA Jack (L, R), 0.5Vrms (-9dB)
Audio Input (PC)	3.5ø Stereo Jack, 0.5Vrms (-9dB)
Headphone Output	Max. 10mW Output (3.5ø Stereo Jack, 32Ω)
Frequency	RF: 80Hz ~ 15kHz (at- 3dB)
Response	A/V: 80Hz ~ 20kHz (at- 3dB)

Display Mode (PC)

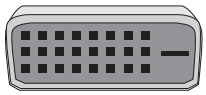
Both screen position and size will vary depending on the type of PC monitor and its resolution. The table below shows all of the display modes that are supported:

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
MAC	640 x 480	35.000	66.667	30.240	- / -
	832 x 624	49.726	74.551	49.500	+ /+
IBM	640 x 480	31.469	59.940	25.175	- / -
	720 x 400	31.469	70.087	28.322	- / +
VESA	640 x 480	37.861	72.809	31.500	- / -
	640 x 480	37.500	75.000	31.500	- / -
	800 x 600	37.879	60.317	40.000	+ /+
	800 x 600	48.077	72.188	50.000	+ /+
	800 x 600	46.875	75.000	49.500	+ /+
	1024 x 768	48.364	60.000	65.000	- / -
	1024 x 768	56.476	70.069	75.000	- / -
	1024 x 768	60.023	75.029	78.750	+ /+
GTF	1280 x 768	47.700	60.000	80.136	- / +

- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.
- DVI dose not support PC function.

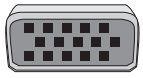
Pin Configurations

DVI - D Connector



Pin	Description	Pin	Description
1	Rx 2-	16	Output Signal Connection
2	Rx 2+	17	Rx 0-
3	Grounding	18	Rx 0+
4	No connection	19	Grounding
5	No connection	20	No connection
6	DDC Clock (SCL)	21	No connection
7	DDC Data (SDA)	22	Grounding
8	Analog Vertical Sync	23	Rx C-
9	Rx 1-	24	Rx C+
10	Rx 1+		
11	Grounding		
12	No connection		
13	No connection		
14	DDC Input Power (+5V)		
15	Self-Raster		

D - Sub Connector



Pin	Separate H/V	Composite H/V
1	Red (R)	Red (R)
2	Green (G)	Green (G)
3	Blue (B)	Blue (B)
4	Grounding	Grounding
5	(DDC return)	Grounding (DDC return)
6	Grounding - Red (R)	Grounding - Red (R)
7	Grounding - Green (G)	Grounding - Green (G)
8	Grounding - Blue (B)	Grounding - Blue (B)
9	No connection	No connection
10	Grounding - Sync. / Self test	Grounding - Sync. / Self test
11	Grounding	Grounding
12	DDC - SDA (Data)	DDC - SDA (Data)
13	Horizontal Sync.	Horizontal/Vertical Sync.
14	Vertical Sync.	Not used
15	DDC - SCL (Clock)	DDC - SCL (Clock)

Setting Up Your Remote Control

After it has been set up properly, your remote control can operate in four different modes: TV, VCR, CABLE, or DVD. Pressing the corresponding button on the remote control allows you to switch between these modes, and control whichever piece of equipment you choose.

Note
The remote control might not be compatible with all DVD Players, VCRs and Cable boxes.

Setting Up the Remote to Operate Your VCR.

1	Turn off your VCR.
2	Press the **SELECT** button and make sure that the VCR LED is illuminated.
3	Press the **SET** button on your TV's remote control.
4	Using the number buttons on your remote control, enter three digits of the VCR code listed on page 63 of this manual for your brand of VCR. Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
5	Press the **POWER** button on the remote control. Your VCR should turn on if your remote is set up correctly. If your VCR does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of VCR. If no other codes are listed, try each VCR code, 000 through 089.

Note on Using Remote Control Modes: VCR
When your remote control is in "VCR" mode, the volume buttons still control your TV's volume.

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Setting Up Your Remote Control

Setting Up the Remote to Operate Your Cable Box

1	Turn off your cable box.
2	Press the **SELECT** button and make sure that the CABLE LED is illuminated.
3	Press the **SET** button on your TV's remote control.
4	Using the number buttons on your remote control, enter three digits of the cable box code listed on page 63 of this manual for your brand of cable box. Make sure you enter three digits of the code, even if the first digit is a "0". If there is more than one code listed, try the first one.
5	Press the **POWER** button on the remote control. Your cable box should turn on if your remote is set up correctly. If your cable box does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of cable box. If no other codes are listed, try each code, 000 through 077.

Note on Using Remote Control Modes: Cable Box
When your remote control is in "CABLE" mode, the volume buttons still control your TV's volume.

Setting Up Your Remote Control

Setting Up the Remote to Operate Your DVD

1	Turn off your DVD.
2	Press the **SELECT** button and make sure that the DVD LED is illuminated.
3	Press the **SET** button on your TV's remote control.
4	Using the number buttons on your remote control, enter three digits of the DVD code listed on page 63 of this manual for your brand of DVD. Make sure you enter three digits of the code, even if the first digit is a "0". If there is more than one code listed, try the first one.
5	Press the **POWER** button on the remote control. Your DVD should turn on if your remote is set up correctly. If your DVD does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of DVD. If no other codes are listed, try each code, 000 through 008.

Note on Using Remote Control Modes: DVD
When your remote control is in "DVD" mode, the volume buttons still control your TV's volume.

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Setting Up Your Remote Control

➢ *Remote Control Codes*

VCR Codes

Brand	Code
Aiwa	024
Curtis Mathes	009 016 017 023 024 055 062 073 076
Funai	024
GE	009 016 017 041 062
Hitachi	014 024 044 045
JC Renney	011 014 016 017 023 025 039 044 060 062
Kenwood	011 023 025 039 055
Magnavox	017 038 062 065
Marantz	011 017 023 025 038 039 055 070
NEC	011 023 025 039 055 070 073
Panasonic	017 062 084 086
Philco	017 038 062 065
Philips	017
Pioneer	014 025 042 059
RCA	009 014 016 017 037 044 046 063 078
Samsung	000
Sanyo	011 021
Sears	011 014 018 021 027 028 044 052 057
Sharp	015 036 048 054
Sony	026 035 047
Sylvania	017 024 038 062 065
Toshiba	014 022 028 057 058

Cable Box

Brand	Code
Hitachi	045 051 054
Panasonic	011 035 047 069
Phlips	015 016 027 029 034 036 037 040 041 048 049
Pioneer	026 028 052
RCA	008 035 074
Samsung	000
Zenith	022 050 065 069

DVD

Brand	Code
Curtis Mathes	009
JVC	003
LG	001
Panasonic	006
ProScan, RCA	008
Samsung	000
Sony	004

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– AFTER SALES SERVICE

– Do not hesitate to contact your retailer or service agent if a change in the performance of your product indicates that a faulty condition may be present.

SAMSUNG

ELECTRONICS